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Borough of Dartford

ANNUAL REPORT

ON CERTAIN MATTERS
CONCERNING

Public Health

FOR THE YEAR

1963

62



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BOROUGH OF DARTFORD

Report for the year 1963 on certain
matters concerning Public Health

August, 1966.

TO THE MAYOR, ALDERMEN AND COUNCILLORS
OF THE BOROUGH OF DARTFORD

YOUR WORSHIP, LADIES AND GENTLEMEN,

As soon as practicable after the end of each year it is the duty of the medical officer of health to make to the local authority a report for that year on the sanitary circumstances, sanitary administration, vital statistics and on any other matters on which it is considered desirable to report.

The main body of this report was completed about eighteen months ago but as the severe winter of 1963 presented an environmental matter calling for special study the submission of the report was postponed until circumstances allowed this to be provided as an addendum.

This report contains much material provided by officers of other departments and other authorities or organizations. The information on most environmental matters largely concerns the work of the Council's public health inspectors upon whom so much of the maintenance of sound standards of environmental hygiene depends. The presentation of the statistical material is a product of the patience of the senior clerical assistant and her successor. I thank these colleagues for their co-operation.

On behalf of my colleagues in the public health office and myself I wish to thank the Chairman and Members of the Public Health Committee for their support and interest during the period under review.

I am,

Mr. Mayor, Ladies and Gentlemen,

Your obedient servant,


Medical Officer of Health.

1963

S U M M A R Y

The population increase continued.

The adjusted birth rate and the natural increase both lessened. The former was less than that of England and Wales. The latter was greater.

There was a slight rise in the death rate compared with the previous year. The rate was less than that of England and Wales.

Deaths from coronary disease rose by about 30% on previous years and the death rate became identical with that of England and Wales.

Deaths from cancer of the lung were similar to previous years and the death rate was similar to that of England and Wales but less than that of London.

The infant death rate was less than that of England and Wales and no infant died from causes attributable to environmental conditions.

There was an exceptionally severe winter and the influence of this is reviewed in an addendum.

The admissions to the Dartford Group of hospitals for accidents in the home were less than in previous years.

Revaccination of school children against smallpox was negligible but immunity of children against polio diphtheria and whooping cough was good.

Fewer houses were built than in previous years. Fifty unfit houses were demolished.

The severe winter led to disrupted supplies of authorised fuel and existing smoke control orders were revoked for two months.

POPULATION.

The gentle increase continued but owing to fewer incomers the increase was less than in previous years. The rate of natural increase per thousand population which has been steadily increasing since 1958 also appeared to be reversing its trend.

	Births.	Town deaths.	Natural increase.	Town population (approx)	Rate.
1958	688	454	234	41,140	5.7
1959	700	436	264	41,940	6.3
1960	735	400	335	42,950	7.9
1961	824	452	372	43,460	8.6
1962	789	428	361	44,180	8.2
1963	780	431	349	44,460	7.8

BIRTHS.

The trend has been:

	1957	1958	1959	1960	1961	1962	1963
Births	697	688	700	735	824	789	780
Birth rate*	16.3	15.9	15.6	15.9	17.6	16.6	15.4
Birth rate (England & Wales)	16.1	16.4	16.5	17.2	17.4	17.4	18.2

* Adjusted by comparability factor.

The percentage of births at home has been:

	Births.	Nursing home or hospital.	Elsewhere (i.e. own home)	% Home
1958	688	538	150	21.8
1959	700	541	159	22.7
1960	735	552	183	24.9
1961	824	610	214	25.9
1962	789	588	201	25.4
1963	780	584	196	25.1

DEATHS.

In recent years these have been:

	1956	1957	1958	1959	1960	1961	1962	1963
Borough Deaths (R.G.)	563	551	606	603	525	625	631	605
Town Deaths	387	328	454	436	400	452	428	431
Adjusted (C.F)								
Death Rates	10.1	9.8	10.6	11.6	9.9	11.8	10.6	11.0
Eng. & Wales								
Death Rates	11.7	11.5	11.7	11.6	11.5	12.0	11.9	12.2

MAIN CAUSES
OF DEATH.

There has been no change in the pattern except for increased emphasis on the first quarter. As usual the chances of dying from cancer were about 1 in 5 and if cancer were to be the cause there was a 3 in 4 chance that it would act before the age of 75. Circulatory disease continued to be responsible for 1 death in 3 and half the deaths from this cause occurred before the age of 75.

Coronary
disease.

There were 100 Town deaths, 9 under the age of 55. Our death rate from this cause showed a marked increase on previous years. Deaths for the last 5 years have been:

Coronary disease continued.	Number		Rate per thousand population -		
	Dartford Town		Dartford Town	Eng. & Wales	London.
1958	76		1.9	1.86	1.84
1959	73		1.8	1.87	1.89
1960	70		1.6	2.01	2.02
1961	75		1.7	2.07	2.05
1962	67		1.5	2.20	2.26
1963	100		2.3	2.29	2.36
	<u>461</u>		<u>1.8</u>	<u>2.05</u>	<u>2.06</u>

By quarters the deaths were:

1963	Town			Bexley Hospital Persons.
	Male.	Female.	Persons.	
1st. qr.	17	15	32	7
2nd. qr.	15	13	28	3
3rd. qr.	10	11	21	2
4th. qr.	12	7	19	3
	<u>54</u>	<u>46</u>	<u>100</u>	<u>15</u>

VASCULAR LESIONS OF NERVOUS SYSTEM.

The number of Town deaths from this cause for the years 1958-1963 have been 51, 63, 34, 47, 43 and 59, the percentage for 1963 being around the National figure of 14%. Of these deaths 63% occurred at age 75 or over.

CANCER.

In the years 1958-63 Town deaths from this cause have been 86, 92, 83, 75, 68 and 76. The death rate in 1963 was 1.7 per thousand. The rate for England and Wales is 2.19.

Cancer of the lung.

In the years 1958 to 1963 the deaths from this cause were:

	Number		Rate per thousand population -		
	Dartford Town		Dartford Town	Eng. & Wales	London
1958	13		0.32	0.44	0.64
1959	25		0.60	0.46	0.64
1960	27		0.63	0.48	0.70
1961	20		0.46	0.49	0.67
1962	21		0.48	0.51	0.68
1963	20		0.45	0.52	0.70

In 1963 there were 14 males and 6 females, only 2 were under 55.

Cancer of the uterus.

In the years 1958 to 1963 the Town deaths from this cause were 4, 1, 1, 4, 2 and 3. In 1963 the ages were 47, 68 and 72.

Leukaemia.

The one death of 1963 was aged 80.

RESPIRATORY DISEASE.

More than half occurred at the age of 75 or over and about half occurred in the first quarter. In 1963 the same proportions occurred in long stay residents of Bexley Hospital.

	0-74	75+	1st. qtr.	Year.
DARTFORD TOWN - 1962	30	34	29	64
1963	25	40	34	65
BEXLEY HOSPITAL - 1962	28	30	18	58
1963	26	37	30	63

Although the first quarter was exceptionally cold, deaths from respiratory disease maintained their usual higher percentage among deaths from all causes in the controlled environment of Bexley Hospital compared with the Town (Table VIII).

DEATHS
RELATING
TO THE
WELFARE
OF INFANTS
AND
MOTHERS.

There was no maternal death. Except for the stillbirth rate the death rates for infants were better than those for England and Wales. In 1963 no infant died from causes which were attributable to environment. All infant deaths occurred in hospital except 1 congenital malformation aged 6 months.

The infant deaths were:

Age	Cause (I.C.D.)	Males	Females
Less than 1 day.	Immaturity (776)	-	1
	Postnatal asphyxia (762)	-	2
		<u>-</u>	<u>3</u>
1 to 6 days.	Immaturity (776)	-	2
	Post natal asphyxia (762)	-	1
	Congenital malformation, "other" (759)	1	-
		<u>1</u>	<u>3</u>
7 to 27 days.	Congen. malform. digestive system (756)	1	-
		<u>1</u>	<u>-</u>
28 to 364 days.	Congen. malform. circulatory system (754)	3	1
		1	-
	Congen. Malform. "other" (759)	<u>4</u>	<u>1</u>

The stillbirths were:

Born in hospital:

Diseases & conditions of pregnancy (Y32)	3	1
Placental & cord conditions (Y36)	-	1
Birth injury (Y37)	1	1
Congenital malformation of foetus (Y38)	2	1

Born at home:

Diseases and conditions of pregnancy (Y32)*	-	1
Diseases of foetus (Y39)	-	1
	<u>8</u>	<u>6</u>

* At relatives home outside district.

Deliveries with hazards take place in hospital, deliveries where hazards are not expected take place at home and thus comparison of stillbirth rates at home and hospital is not feasible. However the respective rates are of interest for a comparison with other districts.

Where born	Stillbirth rates.	
	Dartford Borough.	Dartford R.D.
Hospital	20.1	20.7
Home	10.1	11.3

DEATHS
THROUGH
INJURY.

Deaths through motor vehicle accidents and accidents in the home are discussed below under "accidents".

Other accidents which were causes of death were; a seaman aged 28 killed by a falling derrick (Spanish but death assigned here); a male aged 89 killed by a fall into excavations; a female aged 64 who died from fat embolism following E.C.T. (B.H.)

Suicides.

At 5 Town suicides were in keeping with the higher rate for urban areas. In the ten years 1954-63 suicides have been:

	Av. Pop.	Number	Period	Rate/100,000/year
Dartford Town	42,000	56	1954-63	13.3
Northfleet U.D.	21,000	23	1954-63	11.0
Dartford R.D.	48,000	31	1954-63	6.4
Eng. & Wales	47023,000	5715	1963.	12.1

ACCIDENTS.

This subject has been discussed in previous reports.

The number of admissions from accidents in the home reported in 1963 from the Dartford Group of Hospitals was only about half the usual annual number.

Motor vehicle accidents caused the death of 5 residents of Dartford Town in 1963 - there were 8 such deaths in 1962.

The casualties on our roads not necessarily residents of this district in the last 2 years were:

1962	5 killed	185 seriously injured.
1963	4 killed	112 seriously injured.

INFECTIOUS DISEASES.

There was nothing much different from previous years in the picture presented by 1963.

As usual immunity against polio, smallpox, diphtheria, whooping cough and tetanus accepted by the young population through vaccinations compared well with other areas in the country, but re-vaccination of school children against smallpox was negligible.

The number of notifications of respiratory tuberculosis was less than in previous years. The one death assigned to respiratory tuberculosis was an 80 years old male of no fixed address. Two cases were removed from the tuberculosis register by cancer of the lung.

Of the food poisoning cases which were notified three worm infestations all appeared to have obtained their offending meat in this country.

In accordance with the two yearly cycle measles made its appearance in the early part of the year.

HOUSING.

Fewer houses were built than in previous years largely owing to a reduction in private enterprise building. The Council furthermore undertook the rehousing of such occupants as remained in the 50 unfit houses which were demolished or closed in 1963.

The number of applicants on the waiting list for Council tenancies was in keeping with a faint downward trend. Out of 56 applicants for medical priority 41 were recommended for advantage on health grounds. 14 persons who were rehoused had at some time received advantage on medical grounds.

In regard to the small but growing number of houses in multiple occupation the Council's Chief Public Health Inspector states that for the most part immigrants are the owners with

indigenous families as tenants and the houses are unsuitable for conversion or adaptation.

FOOD.

The details of the year's experience in ensuring that food on sale is wholesome are given in the appendices. In regard to moulds found on foods, the Council's Chief Public Health Inspector considers the principle cause to be one of bad stock rotation which could be avoided by a system of retailer's code marking.

The resumption of the testing of atomic bombs in 1962 accentuated our interest in the radioactivity of foods and the County Analyst has been keeping this latter under observation. His measurements for 1963 given in the appendix are well below the recommended maximum.

AIR

Although another smoke control order became operative during the year the weather of January and February was so severe that existing orders were revoked from February 22 to April 30 owing to disrupted supplies of authorised fuel. The measurements of air pollution by the Council's Public Health Inspectors gave the following results:

Average concentration. Microgrammes per cubic metre air.

	Jan.	1963 Feb.	March	1962/63 Winter	1962/63 Year
Smoke	207	213	59	157	98
S.O ₂	365	294	105	254	177
Ratio	0.57	0.72	0.56	0.62	0.55

An account of the trend of atmospheric pollution at Thames-side has been given in the report for 1958-63 for Swanscombe Urban District.

WATER AND DRAINAGE

Our water reaches us from the ground via mains and supply pipes and after use in and around our bodies is led via drains, sewers and disposal works to the river. Structural, mechanical, chemical, fuel and electrical facilities are involved in this silent service which is assumed always to be available. That many hundreds of thousands of persons should depend on this one circulatory system seems to imply a minute risk of extensive insanitation should disruption occur. The risk of this happening is presumably so small as to be negligible.

In 1963 our water supplies remained wholesome and our drainage continued to be sound. In this respect, as is now usual, the year was uneventful.

SOCIAL CONDITIONS.

POPULATION. Increases in the population are due to natural causes, i.e. excess of births over deaths, and immigration, both being related to new houses built.

COMPARABILITY FACTORS. When local crude birth and death rates are multiplied by the area comparability factors they are comparable with the rate for England and Wales or with the adjusted rate for any other area. In the last eight years the factors for births (governed by the proportion of women aged 18 - 44 years) and for deaths (governed by the proportions of all age groups) have been as follows:-

From 1953 to 1957 all deaths at Bexley Hospital were assigned to Dartford. From 1958 onwards only deaths of persons resident at the hospital six months or more were so assigned.

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TABLE I (continued)

POPULATION OF YOUNG PERSONS.

A guide is necessary to the population in the young age groups in the district in order that we may form an idea from vaccinations done of the proportion who have been given immunity to certain infectious diseases. A rough estimate can be made from the births which have occurred in the district in the relevant years.

Year	Age 31.12.63	Births	Infant deaths	Surviving to 1 year	Approximate populations December 1963.	
1963	0	780	28	752	Age Dec. 1963 0-4 years = 3745	
1962	1	789	16	773		
1961	2	824	17	807		
1960	3	735	11	724		
1959	4	700	11	689		
1958	5	688	20	668	Age Dec. 1963 5-11 years = 4207	
1957	6	697	6	691		
1956	7	632	14	618		
1955	8	581	12	569		
1954	9	579	10	569		
1953	10	591	14	577	Age Dec. 1963 12-15 years = 2476	Age Dec. 1963 5-15 years = 6683
1952	11	533	18	515		
1951	12	562	13	549		
1950	13	594	10	584		
1949	14	656	18	638		
1948	15	722	17	705	Age Dec. 1963 16-20 years = 3254	
1947	16	816	28	788		
1946	17	729	18	711		
1945	18	581	17	564		
1944	19	651	26	625		
1943	20	599	33	566		

Population of school children in primary schools, Autumn Term 1963 = 4814.

Local estimates also useful:

	Age Dec. 1963	Population
Born 1957-1963	0 - 6 years	5104
" 1943-1956	7 - 20 "	8578
" 1943-1963	0 - 20 "	13682
" 1949-1958	5 - 14 "	5978

1961 Census;	Age	Males	Females	Persons	Living alone
	0 - 4	1938	1807	3745	
	5 - 9	1604	1496	3100	Males aged 65+
	10 - 14	1846	1761	3607	= 97
	15 - 19	1546	1428	2974	Females aged 60+
	20 - 24	1199	1445	2644	= 675
	25 - 34	3308	3384	6692	
	35 - 44	3211	3271	6482	
	45 - 54	3220	3289	6509	
	55 - 64	2533	2735	5268	
	65 - 74	1321	1895	3216	
	75+	661	1248	1909	
		22387	23759	46146	
	75 - 79	331	632	963	
	80 - 84	216	400	616	
	85 - 89	97	143	240	
	90 - 94	17	63	80	
	95+	-	10	10	

TABLE II - BIRTHS & DEATHS, 1963.

		M	F	Persons.
Live Births:	Legitimate	398	346	744
		<u>14</u>	<u>22</u>	<u>36</u>
		412	368	780
Deaths from all causes:		292	313	605
Deaths from pregnancy, childbirth, abortion		-	-	-
Stillbirths:	Legitimate	8	6	14
	Illegitimate	-	-	-
		<u>8</u>	<u>6</u>	<u>14</u>
Infant deaths by age:				
0 to 6 days;	Legitimate	1	6	7
	Illegitimate	-	-	-
		<u>1</u>	<u>6</u>	<u>7</u>
7 to 27 days:	Legitimate	-	-	-
	Illegitimate	1	-	1
		<u>1</u>	<u>-</u>	<u>1</u>
28 to 364 days:	Legitimate	4	-	4
	Illegitimate	-	1	1
		<u>4</u>	<u>1</u>	<u>5</u>
Total under one year:				
	Legitimate	5	6	11
	Illegitimate	1	1	2
		<u>6</u>	<u>7</u>	<u>13</u>

Rates per 1,000 Home Population.

	Dartford Borough	England & Wales
Crude live birth rate	16.8	18.2
Live birth rate adjusted by comparability factor	15.4	18.2
Crude death rate	13.0	12.2
Death rate adjusted by comparability factor	11.0	12.2

Rates per 1,000 Live and Stillbirths.

Maternal death rate	0.0	0.28
Stillbirth rate	17.7	17.2
Perinatal death rate (s.bs & deaths 0-6 days)	26.5	29.3

Rates per 1,000 Live Births

Neonatal death rate (deaths 0 - 27 days)	10.3	14.3
Infant death rate (deaths 0 - 364 days)	16.7	21.1

TABLE III - CAUSES OF DEATH ACCORDING TO SEX.

Borough -Registrar General's Return.

	Main causes	All ages	Under 4 wks	4 wks-11 mos	1 year	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+
<u>Males.</u>													
All causes		292	2	4	3	1	2	4	6	18	58	69	125
Tuberculosis, respiratory		1	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis, other		1	-	-	1	-	-	-	-	-	-	-	-
Syphilitic disease		1	-	-	-	-	-	-	-	-	-	1	-
Malignant neoplasm, stomach	(	9	-	-	-	-	-	-	1	-	5	1	2
Mal. neopl., lung, bronchus	54 (	18	-	-	-	-	-	-	1	1	6	6	4
Other malig. & lymph. neoplasms	(	25	-	-	1	-	-	1	1	2	4	8	8
Leukaemia, aleukaemia	(	2	-	-	-	-	-	-	-	-	-	1	1
Diabetes		3	-	-	-	-	-	-	-	-	1	-	2
Vascular lesions of nerv. system	30 (	30	-	-	-	-	-	-	1	2	4	5	18
Coronary disease, angina	(	60	-	-	-	-	-	-	-	8	15	15	22
Hypertension with heart disease	101 (	5	-	-	-	-	-	-	-	-	-	1	4
Other heart disease	(	21	-	-	-	-	-	-	-	-	2	8	11
Other circulatory disease	(	15	-	-	-	-	-	-	-	1	3	7	4
Pneumonia	(	36	-	-	-	-	-	-	-	2	7	2	25
Bronchitis	63 (	25	-	-	-	-	-	-	-	2	7	8	8
Other diseases of resp. system	(	2	-	-	-	-	-	-	-	-	1	-	1
Ulcer of stomach and duodenum		2	-	-	-	-	-	-	1	-	-	1	-
Gastritis, enteritis & diarrhoea		1	-	-	-	-	-	-	-	-	-	-	1
Nephritis and nephrosis		2	-	-	-	-	1	-	-	-	-	1	-
Hyperplasia of prostate		2	-	-	-	-	-	-	-	-	1	1	-
Congenital malformations		5	1	4	-	-	-	-	-	-	-	-	-
Other def. & illdef. diseases		19	1	-	1	-	-	1	1	-	1	3	11
Motor vehicle accidents	7 (	4	-	-	-	1	1	-	-	-	1	-	1
All other accidents	(	3	-	-	-	-	-	2	-	-	-	-	1

<u>Females.</u>													
All causes		313	6	1	-	1	1	3	5	15	34	68	179
Syphilitic disease		2	-	-	-	-	-	-	-	-	1	1	-
Malignant neoplasm, stomach	(	4	-	-	-	-	-	-	-	-	2	-	2
Mal. neopl., lung, bronchus	(	6	-	-	-	-	-	-	-	-	3	3	-
Malignant neoplasm, breast	38 (	8	-	-	-	-	-	-	-	-	3	-	5
Malignant neoplasm, uterus	(	3	-	-	-	-	-	-	-	1	-	2	-
Other malig. & lymph. neoplasms	(	17	-	-	-	-	-	-	1	4	3	4	5
Diabetes		2	-	-	-	-	-	-	-	-	-	1	1
Vascular lesions of nerv. system	52 (	52	-	-	-	-	-	-	-	1	7	12	32
Coronary disease, angina	(	56	-	-	-	-	-	-	-	2	3	15	36
Hypertension with heart disease	102 (	3	-	-	-	-	-	-	-	-	-	1	2
Other heart disease	(	33	-	-	-	-	1	-	-	1	1	7	23
Other circulatory disease	(	10	-	-	-	-	-	-	-	1	1	2	6
Influenza	(	5	-	-	-	-	-	-	-	-	-	1	4
Pneumonia	73 (	54	-	-	-	-	-	-	1	1	3	9	40
Bronchitis	(	12	-	-	-	-	-	-	-	2	3	4	3
Other diseases of resp. sys.	(	2	-	-	-	-	-	-	-	-	-	-	2
Gastritis, enteritis & diarrhoea		3	-	-	-	-	-	-	-	-	1	-	2
Nephritis and nephrosis		3	-	-	-	-	-	-	-	-	-	-	3
Congenital malformations		2	-	1	-	-	-	-	-	1	-	-	-
Oth. def. & ill-def. diseases		27	6	-	-	-	-	1	1	-	3	5	11
Motor vehicle accidents	(	1	-	-	-	1	-	-	-	-	-	-	-
All other accidents	9 (	2	-	-	-	-	-	-	-	-	-	-	2
Suicide	(	6	-	-	-	-	-	2	2	1	-	1	-

TABLE III CONTINUED.
CAUSES OF DEATH ACCORDING TO AGE
Borough - Registrar General's Return.

Persons.	Main causes	All ages	Under 4 wks	4 wks-11 mos	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+
All causes	529	605	8	5	3	2	3	7	11	33	92	137	304
Tuberculosis, respiratory		1	-	-	-	-	-	-	-	-	-	-	1
Tuberculosis, other		1	-	-	1	-	-	-	-	-	-	-	-
Syphilitic disease		3	-	-	-	-	-	-	-	-	1	2	-
Malignant neoplasm, stomach	(	13	-	-	-	-	-	-	1	-	7	1	4
Mal. neopl. lung, bronchus	(	24	-	-	-	-	-	-	1	1	9	9	4
Malignant neoplasm, breast	92	8	-	-	-	-	-	-	-	-	3	-	5
Malignant neoplasm, uterus	(	3	-	-	-	-	-	-	-	1	-	2	-
Other mal. & lymphatic neoplasms	(	42	-	-	1	-	-	1	2	6	7	12	13
Leukaemia, aleukaemia	(	2	-	-	-	-	-	-	-	-	-	1	1
Diabetes		5	-	-	-	-	-	-	-	-	1	1	3
Vascular lesions of nerv. system	82	82	-	-	-	-	-	-	1	3	11	17	50
Coronary disease, angina	(	116	-	-	-	-	-	-	-	10	18	30	58
Hypertension with heart disease	203	8	-	-	-	-	-	-	-	-	-	2	6
Other heart disease	(	54	-	-	-	-	1	-	-	1	3	15	34
Other circulatory disease	(	25	-	-	-	-	-	-	-	2	4	9	10
Influenza	(	5	-	-	-	-	-	-	-	-	-	1	4
Pneumonia	136	90	-	-	-	-	-	-	1	3	10	11	65
Bronchitis	(	37	-	-	-	-	-	-	-	4	10	12	11
Other diseases of resp. system	(	4	-	-	-	-	-	-	-	-	1	-	3
Ulcer of stomach & duodenum		2	-	-	-	-	-	-	1	-	-	1	-
Gastritis, enteritis and diarrhoea		4	-	-	-	-	-	-	-	-	1	-	3
Nephritis and nephrosis		5	-	-	-	-	1	-	-	-	-	1	3
Hyperplasia of prostate		2	-	-	-	-	-	-	-	-	1	1	-
Congenital malformations		7	1	5	-	-	-	-	-	1	-	-	-
Other def. & illdef. diseases		46	7	-	1	-	-	2	2	-	4	8	22
Motor vehicle accidents	(	5	-	-	-	2	1	-	-	-	1	-	1
All other accidents	16	5	-	-	-	-	-	2	-	-	-	-	3
Suicide	(	6	-	-	-	-	-	2	2	1	-	1	-

TABLE IV - CAUSES OF DEATH ACCORDING TO AGE.

TOWN - Compiled locally.

	Main causes	All ages	Under 4 wks	4 wks-1 mos	1 - 2	2 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+
All causes	306	431	8	5	2	1	2	2	6	8	25	72	93	207
Tuberculosis, respiratory		1												1
Tuberculosis, other		1			1									
Syphilitic disease		2										1		1
Diphtheria														
Whooping cough														
Meningococcal infections														
Acute poliomyelitis														
Measles														
Other infective & parasitic disease		1												
Malignant neoplasm, stomach	(10									1		6	1	2
Malignant neoplasm, lung, bronchus	(20									1	1	9	6	3
Malignant neoplasm, breast	(4											1		3
Malignant neoplasm, uterus	76 (3										1		2	
Other malignant & lymphatic neoplasms	(38			1					1	2	5	7	11	11
Leukaemia, aleukaemia	(1													1
Diabetes		4										1	1	2
Vascular lesions of nervous system	59	59								1	2	10	9	37
Coronary disease, angina	(100										9	15	24	52
Hypertension with heart disease	152 (3												2	1
Other heart disease	(21										1	2	6	12
Other circulatory disease	(28										1	5	10	12
Influenza	(2													2
Pneumonia	(36											1	6	29
Bronchitis	65 (27										3	8	7	9
Other diseases of the respiratory system	(-													
Ulcer of stomach and duodenum		1								1				
Gastritis, enteritis & diarrhoea		3										1		2
Nephritis and nephrosis		4												4
Hyperplasia of prostate		3						1					2	
Pregnancy, childbirth, abortion														
Congenital malformations		6	1	4							1			
Other defined and ill-defined diseases		40	7	1		1			2			4	4	21
Motor vehicle accidents	(5						2	1				1		1
All other accidents	13 (3								2					1
Suicide	(5								1	2	1		1	
Homicide and operations of war	(-									1				

TABLE V - CAUSES OF DEATH ACCORDING TO AGE.

BEXLEY HOSPITAL - Compiled locally
(Resident more than 6 months).

	Main causes	All ages	0 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75+
All causes	136	171	-	3	1	3	8	21	45	90
Tuberculosis, respiratory		-	-	-	-	-	-	-	-	-
Tuberculosis, other		-	-	-	-	-	-	-	-	-
Syphilitic disease		1	-	-	-	-	-	-	1	-
Diphtheria		-	-	-	-	-	-	-	-	-
Whooping Cough		-	-	-	-	-	-	-	-	-
Meningococcal infections		-	-	-	-	-	-	-	-	-
Acute poliomyelitis		-	-	-	-	-	-	-	-	-
Measles		-	-	-	-	-	-	-	-	-
Other infective and parasitic disease		-	-	-	-	-	-	-	-	-
Malignant neoplasm, stomach	(	3	-	-	-	-	-	1	-	2
Malignant neoplasm, lung, bronchus	(	3	-	-	-	-	-	-	2	1
Malignant neoplasm, breast	12 (	3	-	-	-	-	-	2	-	1
Malignant neoplasm, uterus	(-	-	-	-	-	-	-	-	-
Other malignant & lymphatic neoplasms	(	3	-	-	-	-	1	-	2	-
Leukaemia, aleukaemia	(-	-	-	-	-	-	-	-	-
Diabetes		4	-	-	-	-	-	3	-	1
Vascular lesions of nervous system		24	-	-	-	1	1	-	9	13
Coronary disease, angina	(	15	-	-	-	-	1	2	7	5
Hypertension with heart disease	58 (	3	-	-	-	-	-	-	2	1
Other heart disease	(	38	-	1	-	-	1	1	7	28
Other circulatory disease	(	2	-	-	-	-	1	1	-	-
Influenza	(	3	-	-	-	-	-	-	1	2
Pneumonia	63 (	54	-	2	-	1	2	5	9	35
Bronchitis	(	6	-	-	-	-	1	3	2	-
Other diseases of the respiratory system	(-	-	-	-	-	-	-	-	-
Ulcer of stomach and duodenum		1	-	-	-	-	-	-	1	-
Gastritis, enteritis & diarrhoea		-	-	-	-	-	-	-	-	-
Nephritis and nephrosis		-	-	-	-	-	-	-	-	-
Hyperplasia of prostate		-	-	-	-	-	-	-	-	-
Pregnancy, childbirth, abortion		-	-	-	-	-	-	-	-	-
Congenital malformations		-	-	-	-	-	-	-	-	-
Other defined and ill-defined diseases		5	-	-	-	1	-	2	2	-
Motor vehicle accidents	(-	-	-	-	-	-	-	-	-
All other accidents	3 (	2	-	-	-	-	-	1	-	1
Suicide	(	1	-	-	1	-	-	-	-	-
Homicide and operations of war	(-	-	-	-	-	-	-	-	-

TABLE VI - CAUSES OF DEATH AT AGES 75 YEARS AND OVER.

		Town.															
		Male					Female										
Main causes		Total persons	Total	75 - 79	80 - 84	85 - 89	90 - 94	95+	Total	75 - 79	80 - 84	85 - 89	90 - 94	95+			
All causes		207	96	35	34	16	11	-	111	37	31	27	14	2			
Tuberculosis, respiratory		1	1	-	1	-	-	-	-	-	-	-	-	-			
Syphilitic disease		1	1	1	-	-	-	-	-	-	-	-	-	-			
Mal. neopl. stomach	20	(2	2	1	1	-	-	-	-	-	-	-	-	-			
Mal. neopl. lung, bronchus		(3	2	1	1	-	-	-	1	1	-	-	-	-			
Mal. neopl. breast		(3	-	-	-	-	-	-	3	1	1	1	-	-			
Other mal. & lym. neopl.		(11	7	1	4	1	1	-	4	2	1	1	-	-			
Leukaemia, aleukaemia		(1	1	-	1	-	-	-	-	-	-	-	-	-			
Diabetes		2	1	1	-	-	-	-	1	-	-	1	-	-			
Vasc. lesions of nerv. system	37	37	16	10	4	1	1	-	21	5	11	4	1	-			
Coronary disease, angina	77	(52	20	7	7	4	2	-	32	12	6	10	4	-			
Hypertension with heart dis.		(1	-	-	-	-	-	-	1	-	-	-	1	-			
Other heart disease		(12	6	-	4	2	-	-	6	2	1	2	1	-			
Other circulatory disease		(12	6	-	4	-	2	-	6	4	-	2	-	-			
Influenza	40	(2	-	-	-	-	-	-	2	-	-	1	1	-			
Pneumonia		(29	13	4	3	2	4	-	16	4	4	4	3	1			
Bronchitis		(9	7	4	2	1	-	-	2	1	1	-	-	-			
Gastritis, enteritis & diarrhoea		2	1	1	-	-	-	-	1	-	-	-	1	-			
Nephritis, nephrosis		4	-	-	-	-	-	-	4	1	3	-	-	-			
Oth. def. & illdef. disease		21	10	3	2	4	1	-	11	4	3	1	2	1			
Motor vehicle accidents	2	(1	1	1	-	-	-	-	-	-	-	-	-	-			
All other accidents		(1	1	-	-	1	-	-	-	-	-	-	-	-			

Bexley Hospital.

All causes		90	27	13	11	3	-	-	63	26	17	14	5	1			
Mal. neopl. stomach	4	(2	-	-	-	-	-	-	2	-	1	1	-	-			
Mal. neopl. lung, bronchus		(1	1	-	-	1	-	-	-	-	-	-	-	-			
Mal. neopl. breast		(1	-	-	-	-	-	-	1	-	-	1	-	-			
Diabetes		1	1	1	-	-	-	-	-	-	-	-	-	-			
Vasc. lesions of nerv. system	13	13	5	1	4	-	-	-	8	6	1	-	-	1			
Coronary disease, angina	34	(5	-	-	-	-	-	-	5	2	2	-	1	-			
Hypertension with heart dis.		(1	-	-	-	-	-	-	1	-	-	-	1	-			
Other heart disease		(28	11	6	3	2	-	-	17	7	6	3	1	-			
Influenza	37	(2	-	-	-	-	-	-	2	1	-	1	-	-			
Pneumonia		(35	9	5	4	-	-	-	26	10	6	8	2	-			
All other accidents	1	1	-	-	-	-	-	-	1	-	1	-	-	-			

TABLE VII - DEATHS BY QUARTER AND PLACE

From 1958 onwards only the deaths of persons who have been in Bexley hospital for over six months are assigned to Dartford. To avoid distortion, hospital deaths are deducted from the Borough deaths each quarter to give the number of Town deaths.

	1st. quarter	2nd. quarter	3rd. quarter	4th. quarter	Year
Total deaths assigned to Dartford Borough by Registrar General.	210	118	126	148	602
Bexley hospital deaths	72	36	27	36	171
∴ Town deaths	138	82	99	112	431

Number of deaths - Dartford Town

1960	108	87	100	105	400
1961	131	111	95	115	452
1962	122	121	87	98	428
1963	138	82	99	112	431

Crude quarterly death rates -

Dartford Town	1960	9.6	7.8	8.9	9.4	8.9
(Pop. of Dartford	1961	11.5	9.8	8.4	10.1	9.9
less about 2000)	1962	10.9	10.8	7.8	8.8	9.6
	1963	12.4	7.4	8.9	10.0	9.7
England & Wales	1960	13.1	10.9	9.8	12.2	11.5
	1961	15.6	10.9	9.5	11.9	12.0
	1962	15.5	11.1	9.4	11.9	11.9
	1963	17.0	11.0	9.6	11.2	12.2

All ages

	M	F	M	F	M	F	M	F	P.
Home	16	22	11	9	16	12	14	19	119
Hospital	52	48	36	25	36	35	45	34	311
Elsewhere	-	-	1	-	-	-	-	-	1
	68	70	48	34	52	47	59	53	431

Aged 75+

Home	7	15	3	7	6	6	3	11	58
Hospital	32	27	12	15	15	20	16	11	148
Elsewhere			1						1
	39	42	16	22	21	26	19	22	207

Deaths by place as % of all deaths.

All ages.

Home	24	31	23	27	31	26	24	36	28
Hospital	76	69	75	99	69	74	76	64	72
Elsewhere	-	-	2	-	-	-	-	-	-
	100	100	100	100	100	100	100	100	100

Aged 75+

Home	18	36	19	32	29	23	16	50	28
Hospital	82	64	75	68	71	77	84	50	72
Elsewhere	-	-	6	-	-	-	-	-	-
	100	100	100	100	100	100	100	100	100

1963. Deaths in Hospital.

	Dartford Town	Dartford R.D.	Northfleet U.D.
All ages	72%	61%	48%
Aged 75+	72%	61%	43%

TABLE VIII - MAIN CAUSES OF DEATH - 1963.

(Compiled locally)

(a) TOWN.

Month registered.	All causes	Main causes	Other causes	Circ. disease	Cancer Lung	Cancer Other	Vasc. les. C.N.S.	Resp. Disease
Aged under 75.								
January	21	20	1	11	-	2	3	4
February	20	16	4	8	2	1	3	2
March	16	13	3	4	-	2	3	4
1st. qtr.	57	49	8	23	2	5	9	10
April	12	9	3	7	1	1	-	-
May	19	14	5	7	2	5	-	-
June	13	9	4	5	-	3	1	-
2nd. qtr.	44	32	12	19	3	9	1	0
July	16	14	2	3	4	4	3	-
August	19	15	4	6	3	3	-	3
September	17	14	3	5	-	4	2	3
3rd. qtr.	52	43	9	14	7	11	5	6
October	31	20	11	5	4	7	3	1
November	21	17	4	7	-	6	2	2
December	19	18	1	7	1	2	2	6
4th. qtr.	<u>71</u>	<u>55</u>	<u>16</u>	<u>19</u>	<u>5</u>	<u>15</u>	<u>7</u>	<u>9</u>
Year	224	179	45	75	17	40	22	25

Aged over 75.

January	29	25	4	8	-	3	4	10
February	30	26	4	15	-	1	3	7
March	22	19	3	5	-	1	6	7
1st. qtr.	81	70	11	28	-	5	13	24
April	14	12	2	4	1	3	2	2
May	13	11	2	6	-	1	1	3
June	11	9	2	6	-	-	1	2
2nd. qtr.	38	32	6	16	1	4	4	7
July	21	18	3	8	-	2	6	2
August	15	15	-	7	-	3	4	1
September	11	7	4	3	1	1	1	1
3rd. qtr.	47	40	7	18	1	6	11	4
October	13	9	4	3	1	-	4	1
November	8	6	2	4	-	-	1	1
December	20	17	3	8	-	2	4	3
4th. qtr.	<u>41</u>	<u>32</u>	<u>9</u>	<u>15</u>	<u>1</u>	<u>2</u>	<u>9</u>	<u>5</u>
Year	207	174	33	77	3	17	37	40

All ages

January	50	45	5	19	-	5	7	14
February	50	42	8	23	2	2	6	9
March	38	32	6	9	-	3	9	11
1st. qtr.	138	119	19	51	2	10	22	34
April	26	21	5	11	2	4	2	2
May	32	25	7	13	2	6	1	3
June	24	18	6	11	-	3	2	2
2nd. qtr.	82	64	18	35	4	13	5	7
July	37	32	5	11	4	6	9	2
August	34	30	4	13	3	6	4	4
September	28	21	7	8	1	5	3	4
3rd. qtr.	99	83	16	32	8	17	16	10
October	44	29	15	8	5	7	7	2
November	29	23	6	11	-	6	3	3
December	39	35	4	15	1	4	6	9
4th. qtr.	<u>112</u>	<u>87</u>	<u>25</u>	<u>34</u>	<u>6</u>	<u>17</u>	<u>16</u>	<u>14</u>
Year	431	353	78	152	20	57	59	65

TABLE VIII - MAIN CAUSES OF DEATH - 1963.

(Compiled locally)

(b) BEXLEY HOSPITAL.

Month registered.	All causes	Main causes	Other causes	Circ. disease	Cancer Lung Other	Vasc. les. C.N.S.	Resp. disease
Aged under 75.							
January	17	14	3	6	- 1	4	3
February	10	8	2	-	- 2	1	5
March	11	11	-	3	- -	1	7
1st. qtr.	38	33	5	9	0 3	6	15
April	7	5	2	1	- -	2	2
May	7	5	2	3	- -	1	1
June	5	5	-	3	- 1	1	-
2nd. qtr.	19	15	4	7	0 1	4	3
July	2	2	-	1	1 -	-	-
August	8	7	1	2	1 1	-	3
September	2	2	-	-	- -	-	2
3rd. qtr.	12	11	1	3	2 1	0	5
October	3	3	-	1	- 1	-	1
November	3	3	-	2	- -	1	-
December	6	4	2	2	- -	-	2
4th. qtr.	12	10	2	5	- 1	1	3
Year	81	69	12	24	2 6	11	26
Aged over 75.							
January	14	14	-	6	- -	1	7
February	10	10	-	3	- -	3	4
March	10	10	-	4	- -	2	4
1st. qtr.	34	34	0	13	0 0	6	15
April	6	6	-	3	- 1	-	2
May	5	5	-	4	- -	1	-
June	6	6	-	2	- -	2	2
2nd. qtr.	17	17	0	9	0 1	3	4
July	3	3	-	1	- -	1	1
August	7	6	1	-	- 1	1	4
September	5	5	-	3	- -	-	2
3rd. qtr.	15	14	1	4	0 1	2	7
October	10	9	1	5	- 1	-	3
November	9	9	-	2	1 -	2	4
December	5	5	-	1	- -	-	4
4th. qtr.	24	23	1	8	1 1	2	11
Year	90	88	2	34	1 3	13	37
All ages							
January	31	28	3	12	- 1	5	10
February	20	18	2	3	- 2	4	9
March	21	21	-	7	- -	3	11
1st. qtr.	72	67	5	22	0 3	12	30
April	13	11	2	4	- 1	2	4
May	12	10	2	7	- -	2	1
June	11	11	-	5	- 1	3	2
2nd. qtr.	36	32	4	16	0 2	7	7
July	5	5	-	2	1 -	1	1
August	15	13	2	2	1 2	1	7
September	7	7	-	3	- -	-	4
3rd. qtr.	27	25	2	7	2 2	2	12
October	13	12	1	6	- 2	-	4
November	12	12	-	4	1 -	3	4
December	11	9	2	3	- -	-	6
4th. qtr.	36	33	3	13	1 2	3	14
Year	171	157	14	58	3 9	24	63

TABLE VIII - MAIN CAUSES OF DEATH (continued).

Deaths from Respiratory Disease.

DEATHS DURING WHOLE YEARS.

Town	Aged 0 - 74 years -			Aged 75 and over -		
	Respiratory disease.	All causes	% Respiratory.	Respiratory disease.	All causes.	% Respiratory
1960	27	213	13%	36	187	19%
1961	39	273	14%	36	179	20%
1962	30	226	13%	34	202	17%
1963	26	224	12%	40	207	22%

Bexley Hospital

1960	11	61	18%	10	60	17%
1961	25	76	33%	30	101	30%
1962	28	95	29%	30	110	27%
1963	26	81	32%	37	90	41%

DEATHS DURING FIRST QUARTERS.

Town						
1960	8	53	15%	13	55	24%
1961	16	79	20%	12	52	23%
1962	12	51	23%	17	71	24%
1963	10	57	18%	24	81	30%

Bexley Hospital

1960	3	13	23%	3	11	27%
1961	12	22	55%	13	27	48%
1962	8	29	28%	10	40	25%
1963	15	38	40%	15	34	44%

1960 No influenza the whole year.
 1961 Virus A2 influenza first quarter
 1962 Virus B influenza first quarter. Fog 3rd. to 7th.
 December.
 1963 Virus A2 influenza and exceptionally cold winter
 first quarter.

Deaths at ages of 65 and over as percentage of deaths at all ages.

65 to 74 years				75 years and over		
Town		England & Wales		Town.		England & Wales
1961	122	27%	26%	179	40%	43%
1962	78	18%	26%	202	47%	43%
1963	93	22%	25%	207	48%	43%

TABLE VIII - MAIN CAUSES OF DEATH (continued)

	All causes	Main causes	Other causes	(440-468) Circulatory diseases	(140-205) Cancer	(330-334) Vasc. les. C.N.S.	(470-527) Resp. diseases
England & Wales.							
1962	557,636	461,679	95,957	208,217	101,608	78,297	73,557
%	100%	83%	17%	38%	18%	14%	13%
1963	572,868	477,021	95,847	213,522	102,416	80,340	80,743
%	100%	83%	17%	37%	18%	14%	14%

Town (compiled locally)

1962	428	333	95	158	68	43	64
%	100%	78%	22%	37%	16%	10%	15%
1963	431	353	78	152	77	59	65
%	100%	82%	18%	35%	18%	14%	15%

As percentage of all causes.

Aged 0-74.

1st. qtr.	100%	86%	14%	40%	12%	16%	18%
2nd. qtr.	100%	73%	27%	43%	27%	1%	0%
3rd. qtr.	100%	83%	17%	27%	35%	10%	12%
4th. qtr.	100%	78%	22%	27%	28%	10%	13%
	100%	80%	20%	33%	25%	10%	11%

Aged 75+

1st. qtr.	100%	86%	14%	35%	6%	16%	30%
2nd. qtr.	100%	84%	16%	42%	13%	11%	18%
3rd. qtr.	100%	85%	15%	38%	15%	23%	9%
4th. qtr.	100%	78%	22%	37%	7%	22%	12%
	100%	84%	16%	37%	10%	18%	19%

All ages.

1st. qtr.	100%	86%	14%	37%	9%	16%	25%
2nd. qtr.	100%	78%	22%	43%	21%	6%	8%
3rd. qtr.	100%	84%	16%	32%	25%	16%	10%
4th. qtr.	100%	78%	22%	30%	21%	14%	13%
	100%	82%	18%	35%	18%	14%	15%

Distribution of deaths from each main cause between two age groups as % of all ages.

Aged 0-74 years

1st. qtr.	42%	42%	42%	45%	58%	41%	29%
2nd. qtr.	54%	49%	67%	54%	71%	20%	0%
3rd. qtr.	52%	52%	56%	44%	72%	31%	60%
4th. qtr.	63%	64%	63%	56%	87%	44%	67%
	52%	51%	57%	49%	74%	37%	40%

Aged 75+

1st. qtr.	58%	58%	58%	55%	42%	59%	71%
2nd. qtr.	46%	51%	31%	46%	31%	80%	100%
3rd. qtr.	48%	48%	44%	56%	28%	69%	40%
4th. qtr.	37%	36%	37%	44%	13%	56%	33%
	48%	49%	43%	51%	26%	63%	60%

TABLE IX - PREVALENCE OF INFECTIOUS DISEASES (other than tuberculosis).

	All ages	Under one	1-4	5-9	10-14	15-24	25-44	45-64	65+
Dysentery	8	1	-	2	-	2	3	-	-
Erysipelas	1	-	-	-	-	-	-	-	1
Food poisoning	4	-	-	-	-	-	4	-	-
Measles	883	16	393	451	13	8	2	-	-
Pneumonia	1	-	-	-	-	-	-	-	1
Puerperal Pyrexia	1	-	-	-	-	-	1	-	-
Scarlet Fever	16	-	6	8	2	-	-	-	-
Whooping Cough	16	2	10	4	-	-	-	-	-
Totals	930	19	409	465	15	10	10	-	2

The food "poisonings" were *S. typhimurium* 1, *S. montevideo* 1, *T. saginata* 2.

In addition, notified from institutions, were Dysentery 1 (*Shigella Sonne*), Puerperal Pyrexia 37, Food poisoning 1 (*Trichinella spiralis*).

Non-notifiable diseases reported from schools were Chicken Pox 126, Impetigo 4, Mumps 156, Influenza 31, Rubella 45, "Gastric Flu" 3.

MEASLES.

	St. Albans	Town	Brent	Highfield	Priory	Heath	Borough
January	-	-	2	1	5	2	10
February	2	4	3	5	3	16	33
March	2	19	20	37	30	39	147
April	7	14	28	23	23	40	135
May	7	2	38	1	10	13	71
June	25	8	50	11	121	16	231
July	1	3	2	11	132	18	167
August	2	9	1	5	41	25	83
September	-	-	1	-	3	1	5
October	-	-	-	-	-	-	-
November	-	-	-	-	-	1	1
December	-	-	-	-	-	-	-
	46	59	145	94	368	171	883

Biennial Cycle

	November	December	January	February	March	April	Total
1950-51	138	288	161	58	44	20	709
1951-52	-	-	-	-	-	-	-
1952-53	154	238	255	77	88	17	829
1953-54	-	-	-	-	-	-	-
1954-55	-	-	6	43	284	473	806
1955-56	-	-	-	-	-	1	1
1956-57	-	-	12	25	107	303	447
1957-58	-	-	-	-	1	5	6
1958-59	20	7	20	47	105	175	374
1959-60	8	-	-	-	-	-	8
1960-61	207	206	149	81	117	46	806
1961-62	1	-	1	-	-	-	2
1962-63	1	11	10	33	147	135	337
1963-64	1	-	1	6	19	31	58

SCARLET FEVER, WHOOPING COUGH AND PNEUMONIA.

Qtrs	St. Albans			Town			Brent			High-field			Priory			Heath			Borough		
	SF	WC	P	SF	WC	P	SF	WC	P	SF	WC	P	SF	WC	P	SF	WC	P	SF	WC	P
1st.	-	-	-	2	-	-	2	-	-	-	-	-	2	-	-	-	-	-	6	-	-
2nd.	1	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	-	-	5	-	-
3rd.	-	-	-	-	-	-	-	2	-	-	-	-	2	4	1	1	-	-	3	6	1
4th.	-	2	-	-	-	-	-	2	-	-	-	-	-	2	-	2	4	-	2	10	-
	1	2	-	2	-	-	3	4	-	-	-	-	5	6	1	5	4	-	16	16	1

TABLE X - TUBERCULOSIS.

(a) Respiratory.

NOTIFICATIONS IN RECENT YEARS.

	Town	Bexley Hospital	Total		Town	Bexley Hospital	Total
1955	37	7	44	1959	15	9	24
1956	21	22	43	1960	9	3	12
1957	32	3	35	1961	20	5	25
1958	22	5	27	1962	17	9	26
				1963	10	-	10

NOTIFICATIONS BY AGE AND SEX.

	Total	0-1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+
Males	6	-	-	2	1	-	-	-	1	1	-	1
Females	4	-	-	-	-	-	1	2	-	1	-	-
	10	-	-	2	1	-	1	2	1	2	-	1

Of the 10 cases notified from the town 1 was infectious, i.e. a male aged 47.

NUMBER OF CASES OF RESPIRATORY TUBERCULOSIS ON THE REGISTER ON DECEMBER 31ST.

	Male	Female	Persons		Male	Female	Persons
1956	297	209	506	1960	250	201	451
1957	293	227	520	1961	255	197	452
1958	295	221	516	1962	266	191	457
1959	283	223	506	1963	250	187	437

CHANGES IN THE REGISTER IN 1962.

Additions:			Removals:		
New notifications		10	Left district		13
Moved into district		10	Recovered		18
Returned to district		1	Not tuberculosis		1
			Deaths		9
		21			41

3 cases whose deaths were registered in 1962 were removed from the tuberculosis register in 1963 and their causes of death were given in the previous report. The 6 further cases, all males, removed in 1963 from the tuberculosis register by death were:

Year born.	Year tuberculosis registered.	Underlying cause of death.	Contributory cause	Whether infectious.
1891	1963	Carcinomatosis Bronchogenic carcinoma	Pulmonary tuberculosis (Tuberculous empyema)	No.
1893	1962 (BH)	Broncho pneumonia	Pulmonary tuberculosis & Epilepsy	No.
1901	1952	Chronic cor pulmonale	Chronic bronchitis	No.
1906	1956	Uraemia. Chronic renal disease. Fanconi syndrome.		Yes.
1906	1959	Bronchial carcinoma		Yes. (Cafe owner)
1907	1950	Coronary thrombosis Cerebral thrombosis	(Lung cavitation p.m.) Pulmonary tuberculosis	Yes.
Male registered in Camberwell -				
1883	1963	Pulmonary tuberculosis. (No fixed address)		?
Female diagnosed p.m. -				
1877	Not registered.	Ischaemic myocardial fibrosis Coronary occlusion. Atheroma.	Active renal and pulmonary fibrous tuberculosis.	? (Warden service bungalow)

TABLE X - TUBERCULOSIS.

(a) Respiratory (continued)

MASS X-RAY Service, 1963.

	Routine										Persons
	Over 45 service				Mas X-ray service				Total		
	Industry		Public		Industry		Public*				
	M	F	M	F	M	F	M	F	M	F	
No. X-rayed	1065	4	928	294	820	245	33	158	2846	701	3547
Active tuberculosis	-	-	-	-	1	1	-	-	1	1	2
Incidence %	-	-	-	-	1.2%	4.1%	-	-	0.4%	1.4%	0.6%

NOT PREVIOUSLY X-RAYED (included in above)

No. X-rayed	37	4	77	134	236	98	21	31	371	267	638
Active tuberculosis	-	-	-	-	-	-	-	-	-	-	-
Incidence %	-	-	-	-	-	-	-	-	-	-	-

* on this occasion only colleges, hospitals etc.

TUBERCULOSIS REQUIRING OCCASIONAL SUPERVISION

5 -

NON-TUBERCULOSIS CASES FOUND.

	Male	Female.
Carcinoma of bronchus	2	-
Sarcoidosis	1	-
Pneumonitis	6	1
Pleural thickening	1	-
Pleurisy	1	-
Fibrosis	1	-
Fractured rib	1	-

FAILED TO ATTEND FOR REVIEW

2 -

DARTFORD CHEST CLINIC.

Dartford Borough provides only about a quarter of the population served by the clinic.

	1961	1962	1963
Total persons attending for first time	1,516	1,715	1,528
(a) Referred by doctors	1,081	1,217	1,056
(b) Contacts	356	448	425
(c) From other sources, e.g. transfers	79	50	47
New cases			
(a) Active pulmonary tuberculosis	50	57	50
(b) Non-pulmonary tuberculosis	14	10	10
(c) Bronchial neoplasm	23	39	34
Found to be sputum positive			
(a) New cases	21	25	27
(b) Old cases	9	24	16
Total attendances	7,197	7,328	6,948
(a) Total individuals attending	3,342	3,576	3,469
(b) Average attendances per individual	2.15	2.05	2.00

In addition to the above some 500 conditions other than tuberculosis or cancer were found each year.

TABLE X - TUBERCULOSIS

(b) Non-respiratory.

NOTIFICATION IN RECENT YEARS

1955	6	1958	6	1961	8
1956	2	1959	2	1962	2
1957	2	1960	2	1963	7

The notifications of 1963 were:-

Males -

Age	13 months	18 years	18 years	59 years
Organ	Meninges	Knee (Immigrant)	Kidney	Kidney

Females -

Age	18 years	23 years	60 years
Organ	Neck gland	Neck glands (Immigrant)	Neck glands (Bexley Hosp.)

NUMBER OF CASES OF NON-PULMONARY TUBERCULOSIS ON REGISTER AT DECEMBER 31ST.

	Male	Female	Persons		Male	Female	Persons
1954	30	42	72	1959	25	30	55
1955	24	36	60	1960	25	31	56
1956	27	33	60	1961	27	35	62
1957	25	33	58	1962	25	34	59
1958	28	33	61	1963	26	34	60

CHANGES IN THE REGISTER WERE AS FOLLOWS:

Additions:

New notifications	7
Transfers	1

Removals:

Recovered	5
Left district	1
Lost sight of	1

The meningitis notified in 1963 died in that year and was removed from the register later.

TABLE XI - VACCINATIONS

Virus Diseases

(a) POLIOMYELITIS

Vaccination doses received in the five years ending Dec. 31st 1963.

Second doses

Born	1959 Injected	1960 Injected	1961 Injected	1962 Injected	1963 Injected	1962 Oral	1963 Oral	1959-63 Total
1957-1963	702	644	811	117	1	448	666	3389
1943-1956	1090	119	275	15		75	28	1602
1933-1942		237	315	20		101	23	
1921-1932	2544	1422	1080	41		156	22	5992
Others			31					
Total	4336	2422	2512	193	1	780	739	10983

Third doses

Born	1959 Injected	1960 Injected	1961 Injected	1962 Oral & injected	1963 Oral & injected	1962 Oral	1963 Oral	Total
1957-1963	679	632	711	627	95	448	666	3858
1943-1956	4633	771	455	230	41	75	28	6233
1933-1942		1422	284	258	5	101	23	
1921-1932	1148	783	872	839	15	156	22	5953
Others			25					
Total	6460	3608	2347	1954	156	780	739	16044

Percentage of young population vaccinated 1959-1963.

Born	Estimated population	No. had 2nd. dose	% of population	*No. had 3rd. dose	% of population
1957-1963	5104	3389	67%	3858	76%
1943-1956	8578	1602	19%	6233	73%
1943-1963	13682	4991	36%	10091	74%

* Vaccination began in 1956, some of those receiving 3rd doses received their second doses in 1956, 1957 or 1958. Second doses of incoming population not recorded here when given before arrival. Thus more with 3rd doses than with 2nd doses within five years 1959-63.

Fourth doses

Born	Estimated population	4th dose 1961	4th dose 1962	4th dose 1963	Total	Percentage
1952-58	4207	2472	623	404	3499	83%

COMPARISON WITH OTHER AREAS.

Vaccinations in five years 1959-1963 of those born 1943-1963 expressed as a percentage of estimated population.

	Dartford R.D.	Dartford Borough.	Kent A.C.*
2nd dose	42%	36%	?
3rd dose	84%	74%	81%

In 1963 facilities continued to be made available for all persons over six months and under forty years of age.

* Vaccinations since 1956 for Kent A.C.

TABLE XI - VACCINATIONS (continued)

(b) SMALLPOX

NUMBERS VACCINATED AND REVACCINATED by age at date of vaccination.

Year	Under 1 year	Vaccinated				Total
		1 year	2 - 4	5 - 14	15 or over	
1963	?	139	?	?	?	?
1962	562	81	183	639	908	2373
1961	500	38	13	13	6	570
1959	433	38		14	9	494
1958	357	27		16	20	420
Year	Under 1 year	Revaccinated				Total
		1 year	2 - 4	5 - 14	15 or over	
1963	?	?	?	1*	?	?
1962	-	10	137	916	2065	3128
1961	-	-	-	-	6	6
1959	-	-		4	11	15
1958	-	1		10	29	40

* Age 5 - 7 years

For the year 1960 figures on these lines were not available.

INFANT VACCINATION RATE

Up to the end of 1961 most infants who were vaccinated were vaccinated in the first year of life but in 1962 more infants than in former years were vaccinated at a later stage. In 1963 the second year of life was advocated as an age for vaccination. The percentage of the number of births in a given year of those vaccinated while under one year of age in that year is used as a vaccination rate up to 1962.

	Number of live births	Number vaccinated under 1 year	Percentage of births of those vaccinated
1963	780	Records no longer kept	?
1962	789	562	72%
1961	824	500	61%

SECOND YEAR VACCINATION RATE

With practice changing to vaccination in the second year of life the County no longer record vaccinations at ages under 1 year. The appropriate rate in future will be the vaccinations done as a percentage of infants surviving to the age of one year.

	Infants aged 1 year in January	Vaccinations done at ages 12 - 23 months	Percentage
1963	773	139	18%
1962	807	81	10%
1961	724	38	5%

SCHOOL CHILD IMMUNITY - December 1963 (approximate)

Estimated population aged 5-14 Born 1949- 1958	Vaccinated or revaccin- ated before 1962 in school years	Vaccinated		Revaccinated		Vaccinated or revaccin- ated in school years by Dec. 31 1963	% aged 5-14 with immunity Dec. 1963
		1962	1963	1962	1963		
		639 x 0.9†		916 x 0.9†			
5978	120 (Estimate)*	575	Say 10	824	1	1530	26%

* roughly 15 a year.

† i.e. 1/10th left school.

TABLE XI - VACCINATIONS (continued)

(b) SMALLPOX

SCHOOL CHILD REVACCINATIONS - DECEMBER 1963 (approximate)

Av. infant vaccin- ation rate 1949 - 58	No. eligible for revaccin- ation	Revaccinated before 1962 in school years.	Revaccinated		Total revaccination before Dec. 31 1963 in school years	% of those eligible with immunity from re- vaccination
			1962	1963		
60%	3587	80 (estimate)+	916 x 0.9+	1	905	25%

i.e. 1/10th left school. + roughly 10 a year

COMPARISONS WITH OTHER AREAS

	Dartford Rural Dis.	Dartford Borough	Northfleet U.D.	Kent A.C.	England & Wales
1962					
Percentage of 1962 births of those vaccinated under 1 year	74%	72%	59%	63%	49%
1963					
Percentage of those aged 1 year vaccinated.	19%	18%	23%	17%	10%

Bacterial Diseases

(c) DIPHTHERIA.

NUMBER VACCINATED

	Age at 31st December	Primary inoculations done in the year	Reinforcing inoculations done in the year
1963	0 - 4 years	643	431
	5 - 14 "	5	336
1962	0 - 4 years	665	390
	5 - 14 years	17	277
1961	0 - 4 years	795	244
	5 - 14 "	106	457

The above include courses completed for diphtheria alone or diphtheria/
tetanus or diphtheria/whooping cough/tetanus combined.

PRIMARY VACCINATIONS of those aged 0 - 4 Years on December 31st. 1963.

Born	V a c c i n a t e d					Vaccinated 1959-1963	Estimated population
	1959	1960	1961	1962	1963		
1963	-	-	-	-	295	295	752
1962	-	-	-	318	334	652	773
1961	-	-	376	326	9	711	807
1960	-	332	331	13	3	679	724
1959	142	385	41	4	2	574	689
Total vaccinated	142	717	748	661	643	2911	3745

TABLE XI - VACCINATIONS (continued)

(c) DIPHTHERIA (continued)

Percentage of related population vaccinated.

Born	V a c c i n a t e d					Total vaccinated 1959-1963
	1959	1960	1961	1962	1963	
1963	-	-	-	-	39%	39%
1962	-	-	-	41%	43%	84%
1961	-	-	47%	40%	1%	88%
1960	-	46%	46%	2%	0%	94%
1959	21%	56%	6%	1%	0%	84%
% of those vaccinated by December 1963	5%	25%	26%	23%	22%	100%
% of 0-4 population of 1962 vaccinated	4%	19%	20%	18%	17%	78%

COMPARISON WITH OTHER AREAS

	Dartford Rural Dis.	Dartford Borough	Northfleet U.D.	Kent A.C.
Percentage of estimated population born 1962 vaccinated in 1962 or 1963	81%	84%	82%	80%

(d) WHOOPING COUGH

PRIMARY VACCINATIONS

Year	Age at Dec. 31st.	Age at Dec. 31st.
	0 - 4 years	5 - 14 years
1963	611	2
1962	647	7
1961	740	49

PRIMARY VACCINATIONS OF THOSE AGED 0 - 4 YEARS ON ON DECEMBER 31st 1963.

Born	V a c c i n a t e d						Estimated population
	1959	1960	1961	1962	1963	1959-1963	
1963	-	-	-	-	287	287	752
1962	-	-	-	331	310	641	773
1961	-	-	370	299	9	678	807
1960	-	332	308	12	3	655	724
1959	292	367	31	3	2	695	689
Total vaccinated	292	699	709	645	611	2956	3745

Percentage of children with primary vaccination

Born	V a c c i n a t e d					
	1959	1960	1961	1962	1963	1959-1963
1963	-	-	-	-	38%	38%
1962	-	-	-	43%	40%	83%
1961	-	-	46%	37%	1%	84%
1960	-	46%	42%	2%	0%	91%
1959	43%	53%	5%	0%	0%	101% *
% of 0-4 vaccinated population Dec. 1963	10%	24%	24%	22%	21%	100%
% of 0-4 total population Dec. 1963	8%	19%	19%	17%	16%	79%

* Population obviously an underestimate.

TABLE XI - VACCINATIONS (continued)

(d) WHOOPING COUGH (continued)

COMPARISON WITH OTHER AREAS

	Dartford Rural Dis.	Dartford Borough	Northfleet U.D.	Kent A.C.
Percentage of estimated population born 1962 vaccinated in 1962 or 1963	79%	83%	81%	80%

(e) TETANUS

Diphtheria/whooping cough/tetanus combined vaccine was introduced in 1960 hence primary vaccinations from 1960 onwards against diphtheria are similar in number to those against whooping cough. This is illustrated in the figures above. The numbers vaccinated against tetanus are not available but can be assumed to be similar to those vaccinated against diphtheria and whooping cough.

(f) TUBERCULOSIS

Children in close contact with patients suffering from tuberculosis are, if necessary, vaccinated with B.C.G. The following vaccinations were carried out at the Chest Clinic, Dartford:-

	Children under 15 years of age				
	1959	1960	1961	1962	1963
Dartford R.D.	160	139	131	184	119
Dartford Borough	133	126	126	129	101

Some persons attend other clinics and therefore these figures are incomplete.

Vaccination of school children is carried out by the School Health services. These children are skin tested and those who do not react are vaccinated. Those who do react are referred to the Chest Physician for further investigation. Figures are not available for these vaccinations.

TABLE XII - INJURY

(a) ACCIDENTS IN THE HOME

Persons admitted to Dartford group of general hospitals.

	Age	Falls	Burns & scalds	Poisoning	Other	Total
1960	0 - 4	2	3	3	3	11
	5 - 64	6	1	-	1	8
	65+	16(5 died)	-	-	-	16
		24	4	3	4	35
1961	0 - 4	3	1	1	1	6
	5 - 64	3(1 died)	-	4	7	14
	65+	16(3 died)	2	-	1	19
		22	3	5	9	39
1962	0 - 4	2	2	-	4	8
	5 - 64	7	1	1	7	16
	65+	14(4 died)	-	1	1	16
		23	3	2	12	40
1963	0 - 4	4	2	1	1	8
	5 - 64	8	-	-	2	10
	65+	1(1 died)	-	-	1	2
		13	2	1	4	20

Length of stay in hospital in weeks.

	Under 1 week	1-	2-	3-	4-	8-	12-	16-	Cases
1962	17	4	3	-	6	5	2	3	40
1963	1	4	2	1	3	-	1	8	20

Deaths in 1963 admissions.

Age	Sex	Cause of death.	Cause of admission.
91 yrs	F	Coronary occlusion. Atheroma.	Fractured neck of femur.

Deaths outside Dartford group of general hospitals, 1963.

At home -		
31 yrs.	M	Carbon monoxide poisoning (Domestic coal gas).
At a long stay hospital -		
84 yrs	F	Pulmonary embolism. Phlebothrombosis R. femoral vein. Fractured neck of R. Femur (Following fall)
64 yrs	F	Acute broncho pneumonia. Coma. Fat embolism. (following E.C.T.)

TABLE XII - INJURY (CONTINUED).

(b) MOTOR VEHICLE ACCIDENTS.

Casualties (not necessarily residents) on local roads.

The following figures are taken from the Chief Constable's analysis of road accidents for 1963

Local Authority	Total injury accidents	Killed	Seriously injured	Slightly injured	Total
Dartford R.D.	322	9	135	309	453
Northfleet U.D.	115	1	28	122	151
Swanscombe U.D.	63	1	24	57	82
Dartford M.B.	317	4	112	273	389

Deaths of Borough residents not necessarily on Borough roads.

Age	Sex.	Type of accident.	Place.
79 yrs	M	Pedestrian/motor van.	On new road bridge, The Brent.
61 yrs	M	Pedal cycle/articulated motor vehicle	?
15 yrs	M	?	?
13 yrs	M	Passenger in side car of motor vehicle combination.	?
6 yrs	F	Pedestrian/motor vehicle.	Princes Road.

(c) OTHER ACCIDENTS.

89 yrs	M	Fell into road excavations.	Tunnel Road.
28 yrs	M	Hit by falling derrick.	Aboard merchand ship, Erith.

(d) SUICIDE.

66 yrs	F	Drug poisoning.
54 yrs	F	Drug poisoning.
30 yrs	F	Drug poisoning.
66 yrs	F	Immersion.
36 yrs	F	Carbon monoxide poisoning.
33 yrs	F	Drug poisoning.

APPENDIX I.

HOUSING.

NEW DWELLINGS. The following were completed in recent years:-

	1958	1959	1960	1961	1962	1963
By Council enterprise	68	124	78	109	33	52
By Private enterprise	254	283	175	82	144	78
	<u>322</u>	<u>407</u>	<u>253</u>	<u>191</u>	<u>177</u>	<u>130</u>

These completed by the Council were:

	1960	1961	1962	1963
One bedroom	12	38	-	12
Two bedrooms	65	60	4	4
Three bedrooms	-	9	-	36
Four bedrooms	-	2	-	-
Bungalows	1	-	29	-
	<u>78</u>	<u>109</u>	<u>33</u>	<u>52</u>

APPLICANTS FOR COUNCIL HOUSES. Waiting list at end of December:

1960 - 1276	1962 - 1180
1961 - 1268	1963 - 1149

HOUSING PRIORITY ON MEDICAL GROUNDS. Recommendations were:

Tuberculosis.					Other than tuberculosis.				
Number of points given.					Number of points given.				
	Total Applications	0	1-5	6-10	Total Applications	0	1-5	6-10	
1962 (a)*	-	-	-	-	16	10	6	-	
(b)*	4	1	3	-	76	21	50	5	
1963 (a)*	-	-	-	-	31	5	26	-	
(b)*	-	-	1	-	56	15	41	-	
	Rehoused				Rehoused				
1963 (a)*	2	1	1	-	8	-	8	-	
(b)*	1	-	1	-	14	-	13	1	

UNFIT HOUSES.

Made fit by informal action	113
Made fit by statutory notice	15
Demolished by Council action	50
Closed by Statutory action	5
Families displaced	9

Houses demolished or closed:

7 Manor Place (1)
 389-395 Princes Road (4)
 1 - 19 East Hill (9)
 139-141 Hythe Street (2)
 107, 113, 117 Hythe Street (3)
 1 - 30 Orchard Street (30)
 7 - 13 Heath Street (4)
 17 West Hill (1)
 Mount View, Ruxley (1)

STATUTORY OVERCROWDING. Known cases Nil.

IMPROVEMENT GRANTS.	Discretionary	- £5498.	Standard	- £3101
	Dwellings	21	Dwellings	26

CARAVANS.	Site licences in force 31.12.63	3
	Number of caravans permitted	12

*(a) = for transfers, *(b) = for rehousing.

APPENDIX II.

WATER.

GATHERING GROUND. The chalk below this district is part of the gathering ground for this part of Kent. The wells of the Metropolitan Water Board draw this water which is pumped into a grid system from which this and neighbouring districts obtain their supply. One of the Kent Area wells of the Metropolitan Water Board is in the centre of Dartford.

ACCESSIBILITY OF SUPPLY. All the permanent dwellings of Dartford Borough have the Board's water piped into them. Two hospitals and three factories have their own well supplies. When necessary the hospital supplies are supplemented or supplanted by the Metropolitan Water Board supply which is kept accessible for this purpose.

QUANTITY. Abundant at present.

QUALITY.

(a) Bacteriological.

In the following the number of E. coli. type 1 per 100 ml. is used to summarize the information provided by samples.

	Number of samples.	E.coli type 1 Ave. per 100 ml.
Dartford Metropolitan Water Board well (raw water)	241	0
West Hill Hospital (raw water)	12	0
Bexley Hospital (chlorinated in well)	6	0
J. & E. Hall Ltd. (3 wells) (raw water)	8	0
Dartford Paper Mills Ltd. (2 wells) (raw water)	4	0
London Paper Mills (2 wells) (raw water)	8	0

(b) Chemical.

General. In the following the number of parts per million of albuminoid ammonia as nitrogen is used to summarize the information provided by samples.

	Number of samples.	Ave. Alb. Amm. p.p.m.
Dartford Metropolitan Water Board well	4	0.02
Bexley Hospital well	1	0.00

Nitrates. With the feeding of newborn and premature babies in mind the water at West Hill Hospital was sampled at monthly intervals for estimation of nitrates.

No. of samples.	Ave. nitrate nitrogen.	Range.
11	11 p.p.m.	7 - 14 p.p.m.

SWIMMING BATHS.

Bacteriological analysis of swimming bath water is done to ascertain the sterilizing ability of the chlorine dosage on the pollution introduced by bathers.

	Number of samples.	E.coli. type 1. Ave. per 100 ml.	Plate count. Ave. Range.
Burnham Road -			
Shallow end.	8	0	8 0 - 54
Deep end	8	0	2 0 - 8
Dartford College of Physical Education*-			
Shallow end	4	0	6 0 - 25
Deep end	4	0	3 0 - 9
		(3 samples)	
		2+	
		(1 sample)	

* Samples taken by L.C.C. also show similar results.

APPENDIX III.

DRAINAGE.

With the few exceptions mentioned below all the dwellings in the Borough are on main drainage, the sewage being led to the works of the West Kent Main Sewerage Board on the periphery of the Borough by the River Thames.

The work carried out in 1963 on the instigation of the Council's Public Health Inspectors was as follows:-

Drains	- cleared by service of notice	7
	cleared by department	499
	repaired	16
	reconstructed	5
	gully fenders repaired	1
	inspection chambers provided	-
	inspection chambers repaired	9
	vent shaft or air inlet repaired	2
Cesspools	- emptied	4
	repaired	-
	abolished	-
Drainage work	- drains tested by water	31
	drains tested by smoke, colour etc.	16
	visits for supervision etc.	574

Where main drainage was not in use the position in 1963 was:-

Domestic premises -		
	Cesspool (foul and sink waste)	40
	Cesspools for foul water only	1
	Cesspools for sink with earth or chemical closets	2
	Septic tanks	7
Factories	-	
	with cesspools	4
	with septic tanks	4
	with chemical closets	4

Some of the cesspools are emptied by the Council, some are emptied by other arrangements, others are never emptied.

APPENDIX IV.

FOOD HYGIENE.

FOOD PREPARATION. Food premises and inspections by the Council's Public Health Inspectors were:

	Premises.	Inspections.
Bakehouses	6	23
Butchers	24	196
Cafes, restaurants, canteens etc.	65	225
Confectioners	41	144
Dairies	3	4
Fish fryers and fishmongers (including market stalls)	14	158
Greengrocers	29	192
Grocers	70	359
Ice-cream premises (including manufacturers)	93	72
Licensed premises (non-catering)	49	162
Slaughterhouses	1	49

Although three premises are registered as dairies, one only is used as such and this only on rare occasions. The figure for ice cream premises is the number of premises registered most of which are grocers or confectioners, the inspections of which are recorded under these headings.

APPENDIX IV (CONTINUED)

Registered premises. Section 16 of the Food & Drugs Act, 1955 requires certain premises to be registered. Those registered in 1962 were:

Sausage making and cooked meats	34
Curing and preservation of fish	4
Ice cream manufacture and sale	1
Ice cream storage and sale	92

Visits to these premises are included in the figures tabulated above.

As a result of the foregoing inspections, 37 notices were served and 30 notices were complied with during the year. The following summarizes the defects remedied:-

Premises and equipment cleansed, repaired or improved	32
Provision of facilities for first aid or cleanliness	14
Protection of food from risk of contamination	1
Repair or cleaning of sanitary accommodation	1
Miscellaneous	7

MILK. The Regulations require this Council to register (a) dairies not being dairy farms, (b) distributors. In 1963 3 dairies and 46 registered distributors were retailing milk in the Borough. All milk sold must be designated milk and regulations require dealers selling this milk to be licensed by this Council. Number of dealers' licences in force in 1963 were as follows:-

Designation.	Prescribed test.	Dealers' licences. 31.12.63
Tuberculin tested	Methylene blue.	25
Pasteurized	Methylene blue and phosphatase.	26
Sterilized	Turbidity of filtrate by heat.	39

For possession of a licence, milk sold under these designations must comply with the prescribed tests. For the purpose of these tests the following samples were submitted to the County Analyst by the Council's Public Health Inspectors:-

Tuberculin tested	6	} All satisfied the prescribed tests.
Pasteurized	22	
Sterilized	6	

ICE CREAM. Ice cream is also tested for cleanliness by the time it takes to bleach methylene blue. Anything shorter than $2\frac{1}{2}$ hours (i.e. Grades III & IV) means that the conditions of manufacture and handling require investigation. The results of samples submitted to the laboratory by the Council's Public Health Inspectors were as follows:-

Solid Ice Cream.

	Manufactured inside district.		Manufactured outside district
	Hot mix.	Cold mix.	Hot mix.
Grade I	5	-	6
Grade II	1	-	-
Grade III	1	-	-
Grade IV	2	1	-

Soft Ice Cream.

Manufactured outside district and frozen at retailers' premises. Results of sampling were:-

	Manufacturer.		
	A	B	B (Powder)
Grade I	1	2	3
Grade II	3	-	-
Grade III	1	1	-
Grade IV	-	2	-

APPENDIX IV (continued).

MEAT. The following relate to carcasses inspected by the Council's Public Health Inspectors at the slaughterhouse of Bexley Hospital.

	Cattle excluding cows.	Cows	Calves	Pigs.
Killed	10	7	57	375
Inspected	10	7	57	375
All diseases except tuberculosis and cysticercosis -				
Whole carcasses rejected	-	1	1	2
Carcasses - parts of which were rejected.	-	2	-	9
Percentage diseased		43%	2%	3%
Tuberculosis				
Whole carcasses rejected	-	-	-	-
Carcasses - parts of which were rejected.	-	-	-	6
Percentage diseased	-	-	-	2%
Cysticercosis				
Carcasses found infested	-	-	-	-

SEIZURE OR SURRENDER OF UNSOUND FOOD. The amount of unsound food surrendered in 1963 was:-

	Tons	Cwts	lbs.
Fish	-	-	42
Meat, poultry etc.	-	19	9
Groceries	41	5	58
Tinned foods	-	5	8
Frozen foods	-	10	84
	43	-	89

FOOD UNFIT FOR CONSUMPTION EXPOSED FOR SALE. Items of food the fitness of which was the subject of complaint to this office by customers were:-

	Number.	Confirmed.
Tainted, "off" or old.	9	5
Moulds	5	5
Dirt	6	5
Insects or their larvae	4	4

LEGAL PROCEEDINGS.

	Fines £. d.	Fees £. d.	Costs £. d.
Sale of mouldy cakes (Offence 1962)	25 0	-	3 3
Sale of bread containing soiled dough.(1962)	25 0	1 16	5 5
Excess water in creamed rice pudding.(1962)	10 0	-	7 7
Screw in fruit bun. (Offence 1963)	25 0	-	5 5
Bread eaten by bird with droppings.(1963)	30 0	1 0	3 3
Dead fly in sausage roll (Offence 1963)	Conditional discharge -		
		7 7	
Smoking whilst handling grapes. (1962)	5 0	-	2 2
Smoking in food room. (Offence 1963)	10 0	-	3 3
Use of dirty milk bottle. (Offence 1962)	25 0	2 5	-
Use of dirty milk bottle. (Offence 1963)	25 0	-	8 8

APPENDIX V.

FOOD CONTENT.

SAMPLING. 148 informal samples were obtained by the Council's public health inspectors and were sent for analysis. 9 samples were reported as inferior. The suppliers were informed of the unsatisfactory qualities of these goods.

CUSTOMERS' COMPLAINTS. 4 related to recognisable items of foreign matter in food and 1 to sugar crystals mistaken for glass. The suppliers were informed where necessary of the unsatisfactory qualities of their goods.

LEGAL PROCEEDINGS.

	Fines.	Fees.	Costs.
Creamed rice pudding. Excess water (Offence 1962)	£10.	£7. 7.	-
Giant prune plums. Sold as Victoria plums. (1962)	Case dismissed.		
Screw in fruit bun. (Offence 1963)	£25.	-	£5. 5.

APPENDIX VI.

AIR HYGIENE.

SMOKE CONTROL.

DOMESTIC. The following are the details of the premises in smoke control areas 1, 2 and 3 Temple Hill (North), i.e. the Orders so far in operation. (These apply the standard exemption regarding sticks and paper.)

Areas (acres)	574
Number of local authority dwellings	1,901
" " other dwellings	1,065
" " industrial and commercial premises	327
" " other premises	27

ATMOSPHERIC POLLUTION. During the year conversions and adaptations were proceeding in accordance with No. 3 Smoke Control Order which became operative with effect from 1st. October, 1963. The surveys of areas No. 4 and Temple Hill East were also completed and Orders were submitted for confirmation. The proposals submitted in respect of Area No. 4 and Temple Hill (East) were as follows:-

	Area No.4.	Temple Hill East.
Acreage	107	56
Industrial and commercial premises	4	5
Number of dwellings - local authority	-	546
" " " other than local authority	977	7
Other premises	6	None
Annual tonnage of bituminous and other smoky fuels		
- domestic	746	560
- industrial	36	None
Bituminous coal needing replacement	746	560
Fuels required to replace bituminous coal -		
Gas (Therms)	1,560	None
Solid smokeless fuel for open fires (Tons)	676	560
Number of dwellings requiring works of adaptation	740	270
Estimated cost of adaptations eligible for grant	£7,970	£203

INDUSTRIAL. During the year representations to the hospital management committee resulted in a hospital incinerator, which for some years has given rise to intermittent complaints, being replaced by a modern industrial incinerator fitted with an after-burner. An exceptional smoke nuisance from a laundry was remedied.

MEASUREMENTS.

The monthly collections of deposit and exposures of lead dioxide analysed by the County Analyst with the daily measurements of smoke and acidity made in this office were included in the readings for the whole Thameside area distributed by the Thameside Joint Committee for the Abatement of Atmospheric Pollution.

APPENDIX VII - RADIOACTIVITY.

FOODSTUFFS. The County Analyst referring to 1963 and the whole County wrote -

"It will be remembered that milk and dairy products are the main source of radioactive material in the diet and therefore special emphasis has been placed on milk, the samples examined being a composite of all those received under the Food and Drugs Act each month. The resumption of the testing of atomic weapons in the autumn of 1962 caused a rise in the amount of contamination, but due to the time lag before the debris from these explosions began to sink down to the lower atmosphere and the unusually dry winter of 1962-3, the effect of this rise was spread over a period of some months.

In the absence of further weapon tests it is anticipated that the amounts of the longer lived radioactive elements, such as Strontium 90 will gradually decrease, although a temporary rise may occur in the spring of 1964 due to the annual cycle of weather and crops. The expected more rapid decrease in the amounts of the shorter lived radioactive elements has occurred and the amount of Strontium 89 fell to a level below that of accurate determination by the late autumn of 1963. The much shorter lived element Iodine 131 has not been detected since the end of 1962.

The significance of levels of Strontium 90 found in foods may be assessed by comparison with the "working levels" recommended by the Medical Research Council of 400 Strontium Units in the diet of individuals and of 130 Strontium Units in the diet of the population as a whole".

PICOCURIES STRONTIUM 90.

1963	Milk		Canteen meals	
	Per litre.	Per gm Ca.(Sr.90 units)	Per kilo.	Per gm Ca.(Sr.90 units)
1st qr.	10	9	15	18
2nd qr.	23	20	20	24
3rd qr.	34	30	26	33
4th qr.	33	28	34	38

Month. Other specific items of food.

February	Carrots	2.4	7.5
February	Cabbage	7.7	10.7
February	Potatoes	1.4	15.0
March	Sprouts	16.6	35.0
May	Plain flour	5.9	4.0
May	Spring greens	52.0	28.0
May	Watercress	67.0	45.0
May	Wholemeal flour	33.0	27.0
June	Lettuce	70.0	90.0

INDUSTRY. The following were registered by the Ministry under the Radioactive Substances Act, 1960 -

For use:	Premises.	Radioactive substance.	Max. Millicurries.
	Paper Mills A	Thallium 204	175
	Paper Mills B	Thallium 204	25
	Paper Mills C	Thallium 204	25
	Chemical Research laboratory	Iodine 131	2
		Phosphorus 32	
		Sulphur	
		Carbon	
		Tritium	10
	Chemical Works	Iodine 131	100
	Instruments	Non-alpha particle emitter	100
For waste:	Chemical Research laboratory		
	Chemical works.		

APPENDIX VIII.

VERMIN CONTROL AND DISINFESTATION.

Rats and Mice.

	Premises involved.	
	1962	1963
Premises inspected as a result of notification	186	213
Infestations found by independent survey	14	7
Premises treated for rats	134*	143
Premises treated for mice	24*	60

*In addition to these, bait was given or sold for the treatment of 4 rat infestations and 22 mice infestations.

	Complaints	Treatments	Premises.
Bed bugs	14	17	14
Wasps	20	19	19
Fleas	4	5	3
Other insects	13	6	5
Premises disinfected (For tuberculosis)	-	2	2

APPENDIX IX.

HYGIENE OF PLACES OF WORK.

FACTORIES. The Council enforces the provision of sanitary conveniences in all factories. In factories without mechanical power the Council also enforces the provision of adequate cleanliness, temperature, ventilation and drainage.

Number on register - December 1963	196
Inspections in 1963	406
Defects found	5
Defects remedied	5
Defects referred to H.M. Inspector	0
Defects referred by H.M. Inspector	0
Outworkers in the Borough - December 1963	25

SHOPS. The Council enforces the provision of adequate sanitary accommodation, temperature, washing facilities, seats, ventilation, closing hours and meal intervals.

	1962	1963
Inspections	495	588
Notices served	16	15
Notices complied with	13	14

APPENDIX X.

HYGIENE FACILITIES PROVIDED BY COUNCIL.

SLIPPER BATHS. The Council provide and maintain the public slipper baths and washing facilities at Spital Street. The number of persons using these were:

	1960	1961	1962	1963
Men	15,512	14,017	11,895	13,792
Boys	531	540	405	448
Women	3,220	3,558	3,473	3,597
Girls	441	476	404	484
	<u>19,704</u>	<u>18,591</u>	<u>16,177</u>	<u>18,321</u>

PUBLIC CONVENIENCES. The Council provide conveniences at Spital Street, Market Street, The Brent, Hesketh Park and Central Park. The Council's public health inspectors made 188 inspections of the conveniences. In addition 8 inspections were made of public conveniences at Inns.

PUBLIC HEALTH COMMITTEE -

1963 - 1964.

Chairman: Alderman Mrs A. Ager.

Deputy Chairman: Councillor E. J. Grover.

The Mayor (Councillor L. H. T. Mayne)
The Deputy Mayor (Alderman J. S. R. Wise)
Alderman C. Bareham.
Alderman E. G. C. Lanyon.
Alderman E. T. Lenderyou.
Councillor J. B. Clark.

Councillor A. L. Cowell.
Councillor N. Holloway.
Councillor J. Huggett.
Councillor Mrs D. Smith.
Councillor D. H. H. Stubbs.

PUBLIC HEALTH OFFICERS.

Medical Officer of Health (Part time)
Chief Public Health Inspector
Additional Public Health Inspectors -

J. H. Hudson
T. H. Iddison.

Pupil Public Health Inspector
Chief Clerk
Clerk

J. Wann.
K. Palmer.
J. Wightman.
T. E. Hagreen (Left 9.7.63)
Miss E. Sorrell.
Mrs M. Pestell.

WINTER DEATHS DARTFORD BOROUGH AND RURAL DISTRICT
WITH SPECIAL REFERENCE TO THE YEAR 1963

INTRODUCTION

The standards of shelter, warmth, ventilation, living space and amenities still vary with social class in spite of the endeavour to help the financially unfortunate and the improvement achieved in consequence. Being exceptionally severe the winter of 1963 presented an opportunity to observe in the pattern of deaths registered whether the exceptional conditions had an undue effect on the population or on any section thereof.

Any undue effect might be associated with deficiencies in our man-made environment to which we might direct the appropriate attention.

OUR WINTER
ENVIRONMENT

Winter presents us with hostile weather, long nights and bleak days. We adapt ourselves by congregating in places of shelter and warmth but the density of congregation and the qualities of shelter and warmth vary. Different sections of the population have different standards of environment.

A group of viruses make their presence felt in winter and the illnesses they cause are loosely termed "colds and 'flu". This type of infection can contribute to death by tipping the balance in a person already fragile in health. Amongst the employed population this is the most common cause of exacerbation of absence from work and the receipts of sickness benefit show that the year 1960 was the only recent year free from these infections.

The only warmth in winter is artificial and air that has to be warmed has only the water in it that it can carry when cold. Most forms of heating thus result in a relatively dry air. This lessened humidity discourages some forms of germ life, e.g. moulds, but encourages others, e.g. those of upper respiratory infection and dysentery. The drier the air the more numerous are deaths from bronchitis and pneumonia. The air we need in winter should be moist enough to keep the lining of our windpipes turgid but dry enough to keep our clothes "aired" and warm. Apart from air conditioning this does not seem attainable in any class of home.

Winter is a time of air pollution. Not only are more combustion products created by increased domestic heating but the increased pollution so created cannot easily disperse. The cold ground denies the air its buoyancy. In addition to

the general increase in air pollution there are acute episodes of fog which trap and further concentrate the pollution thereby exacerbating the working burdens of damaged lungs and crippled hearts.

Susceptibility to the effects of adverse environment increases with age and especially is this so in relation to cold. Elderly persons who are without fuel, or without warm clothing or living in draughty houses, occupying damp rooms with damp bedding, are likely to be more adversely affected by winter than are the other members of the community. Such adversities we would expect to be commoner in the lower income groups.

Features of the years 1957-63 were:

- 1957 Virus A2 influenza and fog last quarter
- 1958 Virus A2 influenza first quarter
- 1959 Virus A2 and B influenza first quarter. Superb summer.
- 1960 No influenza the whole year
- 1961 Virus A2 influenza first quarter
- 1962 Virus B influenza first quarter. Fog last quarter.
- 1963 Virus A2 influenza - exceptionally cold winter first quarter.

WINTER DEATH RATES

The adverse influences of winter outlined above contain conjecture but one fact is clear namely that the complex blend of circumstances associated with winter is accompanied by a markedly higher death rate than pertains to other seasons. An exception in the year 1957 was explained by the appearance of Asian influenza in the last quarter, a timing which was unusual.

SOCIAL GROUPS

Expensive meals, effortless transport, sleepless nights and exacting days impose on the deteriorating manager a damaged heart to which winter may be the final burden. Life in crowds, fag-end smoking and chesty coughing impose on the deteriorating labourer damaged lungs to which air pollution or infection may be overpowering. Central heating in the "desirable residence" avoids the risks of low temperature but incurs the risks of dry air. Oil heating in lodgings may diminish the chance of infection but increase the risk of damp beds and clothing. In the suburbs the houses are large and isolated while in the town the cottages are terraced and cosy. Even draughty houses are not without advantage in so far as the air they contain is never stale. The lonely may find winter a hazard to mental health but the gregarious exchange infections which impinge on physical health.

Once all are above the poverty line no one section of the community can monopolize the influences for opposing winter. January and February are still a hazard to all sections of the community even if with less emphasis than in the past.

The above is largely surmise and the local position warrants examination. It is hoped that the statistical material below will contribute towards an assessment.

CERTAIN
SOCIAL
FEATURES

The census reports of 1951 and 1961 in regard to housing amenities, living space, house ownership, distribution of social classes or socio-economic groups show nothing exceptionally adverse in Dartford Borough or Rural District. For example, in regard to the aged living alone the following figures are from the 1961 report.

	Living alone 1961			No. per 1000
	Males aged 65+	Females aged 60+	Total	
Kent A.D.	6561	37784	44345	1671436
Dartford M.B.	97	675	772	46146
Dartford R.D.	164	636	800	53212

WINTER
1962-63

"The winter of 1962-63 was an exceptional one. A marked fall in temperature occurred on 22nd December and a period of exceptionally cold weather ensued and lasted until 4th March. Snow in greater or lesser amounts lay continuously in many parts of the country and at times there was considerable disorganization of transport. At Kew Observatory it was the coldest January since 1838 and in St. James' Park, London, the mean January temperature of 0.8°C was 5.4°C below normal for the month. The lowest temperature recorded in the country was -20.6°C on 23rd January."

"In London the effect of low temperature on mortality was not noticeable until immediately after Christmas by which time on December 26th the minimum temperature had fallen to -4°C . The daily mortality figures then rose continuously to reach maximum on 25th and 28th January and again on the 19th February. A period of particular heavy atmospheric pollution when the mean daily figures from seven London sites rose to 820ug per cubic metre of smoke and 1,230ug per cubic metre of sulphur dioxide corresponds to the period of high mortality from 23rd to 28th January."

"Little evidence of influenza virus infection was observed until the last week of January when outbreaks associated with influenza virus A2 were reported, mainly from

southern England accompanied by an increase in the numbers of notifications from primary and influenzal pneumonia and of deaths from influenza and pneumonia. For several weeks influenza was largely confined to London and the south east, reaching a peak in London Administrative County in about the middle of February. In London influenza may have had an effect of keeping the morbidity and mortality rates at a high level for some time after the return of the warmer weather."

"The Emergency Bed Service data for respiratory diseases indicates that the age groups between 5 and 44 years show no noticeable seasonal increase. Neither the polluted fogs nor the cold weather nor the influenza had any appreciable effect. The 45 - 79 year age groups showed the greatest increases both during the January - February period and as a result of the individual peaks of high pollution. The record of the 0 - 4 age group is of particular interest as it shows a comparatively slight increase in morbidity during January and February, and no noticeable increase as a result of any of the pollution incidents." (C.M.O's report for 1963).

LOCAL
DIRECT
COLD
DEATHS
1963

The following deaths were directly attributable to

cold:					
Age	Sex	Social Class	Place of onset	Place of death	Cause
Dartford Borough					
88	M	II	Private house	Joyce Green Hospital	Hypothermia
Dartford Rural District					
63	F	V	Council house	-do-	-do-
70	F	Unclassified	Caravan	Caravan	Exposure to cold (self neglect)
73	F	"	"	"	-do-
80	M	IV	Cottage	Joyce Green Hospital	1a Gangrene b Frostbite c Senility II Br.pneumonia
86	M	III	"	"	Hypothermia

The male aged 88 lived in a good home. Self-discipline was his habit. He went for a walk in the cold from which he failed to recover.

The female aged 63 was a widow living alone who habitually neglected herself and to whom medical attention was unwelcome. Her house was unheated.

The females aged 70 and 73 were sisters living together on a caravan site. In view of their reclusive way of living, there had been apprehension for their welfare since 1959. In January 1963 after the sisters had not been seen for over a week the caravan was forced open and they were found dead. There was sufficient fuel and money in the caravan for their needs.

The male aged 80 had been living alone in an isolated rural cottage access to which had become blocked. He had been in the snow wearing rubber boots without stockings and later developed frostbite followed by gangrene. Partial amputation was performed but he died from terminal pneumonia on 3rd April.

The male aged 86 was admitted to hospital as an emergency. He was in a neglected condition, was semi-conscious and died not long after admission.

"COT DEATHS"

In the Borough there were no "cot deaths" (i.e. sudden infant deaths). In the Rural District there were three in January and February attributed to respiratory disease. All were well housed. Social classes III, V. and V.

THE NATURE OF THIS ANALYSIS

These are the cases that died and in which the effect of cold was evident in the stated cause of death.

Between January 1st and February 12th about fifteen cases of hypothermia were admitted to Joyce Green Hospital, some recovered and some were not from this Borough or Rural District. Some were admitted because of mental confusion, others were suspected of having had "strokes". Only one was recognised as hypothermia before admission. It may be that more were admitted after February 12th.

The question arises as to whether these cases known through the Coroner's Court or through hospital admission were but a small detected part of a large hidden adversity. Essentially this is a matter requiring analysis of records but in this small office our statistical material is sparse and our resources are limited. However, when death occurs civil needs outpace public health needs and provide a forceful incentive for complete registration. Certain details surrounding each death are thus available and by punch cards, knitting needle and slide rule these are capable of analysis. Thus it is that our study of the influence of winter environment consists of a search for evidence in our records of death.

DISCUSSION

I am unable to offer a refined analysis from the statistics presented. The statistical method I tend to use is that of contemplation in the hope that conclusions may spontaneously emerge.

The quarterly death rates of Table A illustrate statistically the accepted belief that winter contains an effective ingredient of health adversity. In the years 1956-63 in England and Wales, the highest quarterly death rate was that of the winter 1963. In Dartford Town and Borough a higher rate was experienced in 1959, and in Dartford Rural District in 1958. Only in England and Wales was the 1963 winter death rate as outstanding as the severity of the weather.

In the remaining tables the percentages of the years' deaths occurring in the winter quarter is the indicator mainly used to illustrate the degree of health adversity associated with winter.

Tables B and C using this indicator show again that in Dartford Town and Rural District the effect of the severe winter of 1963 was nothing outstanding compared with the other years of 1956-63. The effect of the long superb summer of 1959 was also unexceptional.

It is noticeable that in these years winter accelerated death more in those aged 75 years and over than in those under that age. This, of course, is an already accepted belief.

Table D enables us to see if any of the main causes of death are notably emphasised in the winters 1959-63. In those aged 75 years and over the main cause of death that seems perhaps emphasised in winter is that of respiratory diseases and in the winter of 1963 this was more evident. However, there was nothing noteworthy in the degree of emphasis.

Tables E and F enable us to look for any social class which was unduly vulnerable to the effects of the 1963 winter in Dartford Town or Rural District. Deaths from all causes at all ages, (E&F(iii)) do not show in any social class a difference that could not be explained by easy chance. The same applies to deaths from respiratory diseases at all ages. Winter 1963 appears to have accelerated death evenly among the social classes.

In Dartford Rural District the patterns for 1958 and 1959 are available. They are not very different from 1963.

Percentages of years deaths registered in first quarter -

Social class	1958	1959	1963
I & II	39%	30%	36%
III	31%	36%	32%
IV & V	38%	28%	31%

Table G is provided as a clue to the effects of the artificial climate created by central heating. It is perhaps of interest to note that, as in the general population, the lowest number of winter deaths was in the year 1960 when there was no influenza and the highest was in the year 1963 when there was a severe winter.

SUMMARY

Six deaths directly due to cold occurred in the severe winter of 1963 and became known through hospital admission or coroners court.

In an endeavour to find if an age group, class or cause is unduly prominent in winter deaths, the latter have been subjected to analysis.

Winter is a blend of several adversities, one influence of which is to produce a death rate in the first quarter which is the maximum of almost every year.

The percentage of any years deaths which occurs in winter here is greater for those aged 75 years and over than for those under that age.

In the winter of 1963 none of the three social class groups here showed a percentage greatly differing from the percentages of the other two.

Respiratory diseases form the main cause of death most increased by winter.

In the severe winter of 1963 deaths were increased proportionally as much in a warm institution as in the general population.

Though exceptionally severe the winter of 1963 produced no great change in the pattern of deaths as seen from the register.

The six deaths of 1963 directly due to cold were related to self neglect and to circumstances peculiar to the deceased rather than pertaining to the population as a whole.

They did not appear to be the small revealed fraction of an extensive unseen misfortune due to inadequacy of the physical environment.

JHH/MP.

5. 8.66

EXPLANATORY NOTES ON THE TABLES

THE TABLES

The following tables are presented -

- A. Quarterly and yearly death rates 1956-63.
England and Wales. Dartford Town. Dartford Borough.
Dartford Rural District.
- B. Dartford Town 1956-63. (i) Deaths by quarters,
(ii) Percentages of each years deaths registered
each quarter. All ages. Aged 0 - 74. Aged 75 and over.
- C. Dartford Rural District 1956-63. (i) Deaths by quarters
(ii) Percentages of each years deaths registered each
quarter. All ages. Aged 0 - 74. Aged 75 and over.
- D. Dartford Town. Main causes of death. Percentages
of each years deaths registered each quarter.
(i) Aged 75 years and over 1959-63. (ii) All ages
1961-63.
- E. Dartford Town 1963. Main causes of death by social
class and quarter with percentages of each years deaths
registered each quarter. (i) Aged 0 - 74 years.
(ii) Aged 75 years and over. (iii) All ages.
- F. Dartford Rural District 1963. Main causes of death by
social class and quarter with percentages of each years
deaths registered each quarter. (i) Aged 0 - 74 years.
(ii) Aged 75 years and over. (iii) All ages.
- G. Bexley Hospital. Percentages of each years deaths
registered each quarter.

THEIR INGREDIENTS

The quarterly death rates display the seasonal influences accelerating or postponing death. When dealing with the whole population we can compare the death rates of 1963 with those of previous years and other areas by use of the comparability factors which adjust for differences of age constitution in the populations used for comparison.

When we are studying sections of our population it is not feasible to use quarterly death rates as we have no reliable estimates of the population in each section (e.g. age group or social class) on which to base our calculations. The constitution of the population changes little during one year so as an indicator of seasonal influence we use the percentage of each years deaths occurring in each quarter.

In studying the year 1963 we use three groupings, namely, age, social class and cause of death. These groupings are overlapping, e.g. a social class group may contain an excess of an age group.

Many of the groupings are small in size and in view of the play of chance it might be wise to do no more than present the absolute figures. Nevertheless in the interests of readability and discussion they have been formed into percentages with the assumption that the precarious basis of some of these percentages will be kept in mind.

SOCIAL CLASS

Those with a memory of the interwar years will visualise a population in which the environmental needs were provided for by ability to earn and plan which in turn was related to social class. A classification of persons according to social class was made possible by the Registrar General who devised and kept revised a code of practice for the purpose. By use of the code different death rates could be discerned in each social class and these differences are still discernible. In essence, there are five classes as follows:

- Class I Professional etc. occupations
- II Intermediate occupations
- III Skilled occupations
- IV Partly skilled occupations
- V Unskilled occupations

Social class affects a death rate by the influence of past environment provoking chronic diseases different in kind and degree in different classes and by the influence of the immediate environment on the persons so affected. But interpretation is complicated - a high death rate in young age groups through poor environment may, through survival of the fittest, produce a more robust population in the older age groups.

The assignment of deaths to the social classes in these tables is done in accordance with the "classification of occupations 1960" of the General Registrar's office.

MAIN CAUSE OF DEATH

Classification is done in accordance with the international code of practice and the deaths are then assigned to the Registrar General's list of 36 causes. These are then grouped as follows:

Circulatory disease	Coronary, hypertensive and other heart and circulatory disease (R.G's. Nos. 18-21)
Cancer	All sites including leukaemia (Nos. 10-14)
Vascular lesions of Nervous system	(No. 17)
Respiratory disease	Influenza, pneumonia, bronchitis and other (Nos. 22-25)
Other causes	The remainder (No. 32)

"DARTFORD TOWN"

The term "Dartford Town" is used for the population of Dartford Borough without the population of the long-stay Bexley Hospital.

IMPERFECTIONS

These records do contain imperfections. On rare occasions (1 in 200) a death may be assigned to a wrong district or it may be registered late owing e.g. to an inquest. Social classification may be uncertain. The deaths are of a number in which for small variations the play of chance is substantial. Cold may not be recognised as a cause of death and even if so recognised it may be regarded as out of place on a certificate of cause of death just as tobacco is not mentioned when the cause of death is cancer of the lung.

TABLE A

QUARTERLY AND YEARLY DEATH RATES 1956 - 63

England and Wales	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
1956	15.3	10.8	9.3	11.3	11.7
1957	12.2	10.6	9.7	13.4	11.5
1958	14.7	11.0	9.3	11.7	11.7
1959	15.8	10.6	9.0	11.1	11.6
1960	13.1	10.9	9.8	12.2	11.5
1961	15.5	10.9	9.5	11.9	11.9
1962	15.5	11.1	9.4	11.9	11.9
1963	17.0	11.0	9.6	11.2	12.2

Dartford Town	Crude rates excluding long-stay hospital				
1956	12.1	9.4	9.2	9.3	10.0
1957	8.4	8.4	6.9	9.1	8.2
1958	13.6	8.6	9.2	10.5	10.5
1959	15.0	9.7	6.8	8.2	9.9
1960	9.6	7.8	8.9	9.4	8.9
1961	11.5	9.8	8.4	10.1	9.9
1962	10.9	10.8	7.8	8.8	9.6
1963	12.4	7.4	8.9	10.0	9.7

Dartford Borough	Rates adjusted by comparability factor, including long-stay hospital				
1956	12.3	9.9	8.5	9.7	10.2
1957	10.0	10.4	7.1	11.4	9.7
1958	14.6	8.5	9.0	10.3	10.6
1959	17.2	11.4	8.2	10.2	12.2
1960	10.0	9.5	9.6	10.4	9.9
1961	13.7	11.7	8.8	13.5	11.9
1962	12.9	12.2	8.6	9.0	10.7
1963	15.4	8.7	9.2	10.9	11.0

Dartford Rural District	Rates adjusted by comparability factor, including long-stay hospital				
1956	15.0	9.7	8.3	11.9	11.2
1957	12.1	7.8	9.3	13.4	10.7
1958	15.4	8.9	9.3	10.3	11.0
1959	13.4	9.4	9.0	9.3	10.3
1960	11.3	11.0	7.9	10.3	10.1
1961	13.6	8.8	10.5	11.1	11.0
1962	14.1	10.1	9.5	12.7	11.5
1963	15.1	9.4	9.5	10.6	11.2

TABLE B

DARTFORD TOWN

PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Deaths by quarters

All ages	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	year
1956	117	91	89	90	387
1957	84	84	69	91	328
1958	148	93	99	114	454
1959	165	106	75	90	436
1960	108	87	100	105	400
1961	131	111	95	115	452
1962	122	121	87	98	428
1963	138	82	99	112	431

Aged 0-74

1956	65	63	65	56	249
1957	49	52	42	51	194
1958	72	63	57	66	258
1959	88	67	45	52	252
1960	53	48	55	57	213
1961	79	65	66	63	273
1962	51	71	56	48	226
1963	57	44	52	71	224

Aged 75 and over

1956	52	28	24	34	138
1957	35	32	27	40	134
1958	76	30	42	48	196
1959	77	39	30	38	184
1960	55	39	45	48	187
1961	52	46	29	52	179
1962	71	50	31	50	202
1963	81	38	47	41	207

(ii) Percentages of each years deaths registered each quarter

All ages	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	year
1956	30%	24%	23%	23%	100%
1957	26%	26%	21%	27%	100%
1958	33%	20%	22%	25%	100%
1959	38%	24%	17%	21%	100%
1960	27%	22%	25%	26%	100%
1961	29%	25%	21%	25%	100%
1962	29%	28%	20%	23%	100%
1963	32%	19%	23%	26%	100%

Aged 0 - 74

1956	26%	25%	26%	23%	100%
1957	25%	27%	22%	26%	100%
1958	28%	24%	22%	26%	100%
1959	35%	26%	18%	21%	100%
1960	25%	22%	26%	27%	100%
1961	29%	24%	24%	23%	100%
1962	23%	31%	25%	21%	100%
1963	25%	20%	23%	32%	100%

Aged 75 and over

1956	38%	20%	17%	25%	100%
1957	26%	24%	20%	30%	100%
1958	39%	15%	21%	25%	100%
1959	42%	21%	16%	21%	100%
1960	29%	21%	24%	26%	100%
1961	29%	26%	16%	29%	100%
1962	35%	25%	15%	25%	100%
1963	39%	18%	23%	20%	100%

TABLE C

DARTFORD RURAL DISTRICT

PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Deaths by quarters

All ages	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	year
1956	152	99	85	121	457
1957	138	89	105	153	485
1958	174	100	105	116	495
1959	157	111	106	109	483
1960	127	124	89	116	456
1961	164	107	128	134	533
1962	170	122	112	154	558
1963	194	121	122	136	573

Aged 0 - 74

1956	81	58	51	68	258
1957	82	45	72	89	288
1958	102	56	69	57	284
1959	80	71	63	59	273
1960	71	68	55	73	267
1961	72	56	78	80	286
1962	84	62	66	89	301
1963	93	72	76	74	315

Aged 75 and over

1956	71	41	34	53	199
1957	56	44	33	64	197
1958	72	44	36	59	211
1959	77	40	43	50	210
1960	56	56	34	43	189
1961	92	51	50	54	247
1962	86	60	46	65	257
1963	101	49	46	62	258

(ii) Percentages of each years deaths registered each quarter

All ages	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	year
1956	33%	22%	19%	26%	100%
1957	28%	18%	22%	32%	100%
1958	35%	20%	21%	24%	100%
1959	32%	23%	22%	23%	100%
1960	28%	27%	20%	25%	100%
1961	31%	20%	24%	25%	100%
1962	30%	22%	20%	28%	100%
1963	34%	21%	21%	24%	100%

Aged 0 - 74

1956	31%	23%	20%	26%	100%
1957	29%	15%	25%	31%	100%
1958	36%	20%	24%	20%	100%
1959	29%	26%	23%	22%	100%
1960	27%	26%	21%	26%	100%
1961	25%	20%	27%	28%	100%
1962	28%	20%	22%	30%	100%
1963	30%	23%	24%	23%	100%

Aged 75 and over

1956	35%	21%	17%	27%	100%
1957	28%	23%	17%	32%	100%
1958	34%	21%	17%	28%	100%
1959	36%	19%	21%	24%	100%
1960	30%	30%	18%	22%	100%
1961	37%	21%	20%	22%	100%
1962	34%	23%	18%	25%	100%
1963	39%	19%	18%	24%	100%

TABLE D

DARTFORD TOWN 1959-63

MAIN CAUSES OF DEATH

PERCENTAGE OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Aged 75 years and over

(a) Circulatory

	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
1959	33 (44%)	18 (24%)	7 (9%)	16 (22%)	74 (100%)
1960	21 (25%)	23 (27%)	17 (20%)	24 (28%)	85 (100%)
1961	28 (34%)	20 (24%)	16 (20%)	18 (22%)	82 (100%)
1962	27 (29%)	22 (24%)	16 (17%)	27 (29%)	92 (100%)
1963	28 (36%)	16 (21%)	18 (23%)	15 (20%)	77 (100%)

(b) Cancer

1959	10 (31%)	8 (25%)	9 (28%)	5 (16%)	32 (100%)
1960	8 (32%)	6 (24%)	8 (32%)	3 (12%)	25 (100%)
1961	3 (21%)	4 (29%)	3 (21%)	4 (29%)	14 (100%)
1962	7 (37%)	3 (16%)	2 (11%)	7 (37%)	19 (100%)
1963	5 (25%)	5 (25%)	7 (35%)	3 (15%)	20 (100%)

(c) Vasc. lesions of Nervous System

1959	11 (34%)	6 (19%)	7 (22%)	8 (25%)	32 (100%)
1960	4 (21%)	3 (16%)	5 (26%)	7 (37%)	19 (100%)
1961	4 (14%)	8 (29%)	4 (14%)	12 (43%)	28 (100%)
1962	7 (30%)	8 (35%)	4 (17%)	4 (17%)	23 (100%)
1963	13 (35%)	4 (11%)	11 (30%)	9 (24%)	37 (100%)

(d) Respiratory diseases

1959	16 (55%)	5 (17%)	2 (7%)	6 (2%)	29 (100%)
1960	13 (36%)	3 (8%)	10 (28%)	10 (28%)	36 (100%)
1961	12 (33%)	8 (22%)	3 (8%)	13 (36%)	36 (100%)
1962	17 (50%)	4 (12%)	6 (18%)	7 (20%)	34 (100%)
1963	24 (60%)	7 (18%)	4 (10%)	5 (13%)	40 (100%)

(e) Other causes

1959	9 (47%)	2 (11%)	5 (26%)	3 (16%)	19 (100%)
1960	9 (41%)	4 (18%)	5 (23%)	4 (18%)	22 (100%)
1961	5 (26%)	6 (32%)	3 (16%)	5 (26%)	19 (100%)
1962	13 (38%)	13 (38%)	3 (9%)	5 (15%)	34 (100%)
1963	11 (33%)	6 (18%)	7 (21%)	9 (27%)	33 (100%)

(f) All causes

1959	79 (42%)	39 (21%)	30 (16%)	38 (20%)	186 (100%)
1960	55 (29%)	39 (21%)	45 (24%)	48 (26%)	187 (100%)
1961	52 (29%)	46 (26%)	29 (16%)	52 (29%)	179 (100%)
1962	71 (35%)	50 (25%)	31 (15%)	50 (25%)	202 (100%)
1963	81 (39%)	38 (18%)	47 (23%)	41 (20%)	207 (100%)

TABLE D (continued)

Dartford Town 1961-63

Main causes of death

Percentage of each years deaths registered each quarter

(ii) All ages

(a) Circulatory disease

	1st Qr.		2nd Qr.		3rd Qr.		4th Qr.		Year
1961	54 (31%)		43 (24%)		46 (26%)		35 (20%)		178 (100%)
1962	39 (25%)		38 (24%)		40 (25%)		41 (26%)		158 (100%)
1963	51 (34%)		35 (23%)		32 (21%)		34 (22%)		152 (100%)

(b) Cancer

1961	16 (21%)		19 (25%)		19 (25%)		21 (28%)		75 (100%)
1962	20 (30%)		21 (32%)		10 (15%)		16 (24%)		67 (100%)
1963	12 (16%)		17 (22%)		25 (32%)		23 (30%)		77 (100%)

(c) Vasc. lesions of Nervous System

1961	8 (17%)		15 (32%)		9 (19%)		15 (32%)		47 (100%)
1962	10 (23%)		14 (33%)		10 (23%)		9 (21%)		43 (100%)
1963	22 (37%)		5 (9%)		16 (27%)		16 (27%)		59 (100%)

(d) Respiratory diseases

1961	28 (37%)		17 (23%)		6 (8%)		24 (32%)		75 (100%)
1962	29 (45%)		12 (19%)		11 (17%)		12 (19%)		64 (100%)
1963	34 (52%)		7 (11%)		10 (15%)		14 (22%)		65 (100%)

(e) Other causes

1961	25 (32%)		17 (22%)		15 (20%)		20 (26%)		77 (100%)
1962	24 (24%)		37 (38%)		17 (17%)		20 (20%)		98 (100%)
1963	19 (24%)		18 (23%)		16 (16%)		25 (32%)		78 (100%)

(f) All causes

1961	131 (29%)		111 (25%)		95 (21%)		115 (25%)		452 (100%)
1962	122 (28%)		122 (28%)		88 (20%)		98 (23%)		430 (100%)
1963	138 (32%)		82 (19%)		99 (23%)		112 (26%)		431 (100%)

TABLE E

DARTFORD TOWN 1963

MAIN CAUSES OF DEATH BY SOCIAL CLASS AND QUARTER WITH
PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Aged 0 - 74 years

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	2 (22%)	5 (56%)	2 (22%)	-	9 (100%)
III	14 (32%)	8 (19%)	6 (14%)	15 (35%)	43 (100%)
IV & V	7 (33%)	4 (19%)	6 (19%)	4 (19%)	21 (100%)
Unclassified	-	2 (100%)	-	-	2 (100%)
All classes	<u>23</u> (31%)	<u>19</u> (25%)	<u>14</u> (19%)	<u>19</u> (25%)	<u>75</u> (100%)

(b) Cancer

I & II	-	3 (43%)	3 (43%)	1 (14)	7 (100%)
III	3 (11%)	3 (11%)	9 (32%)	13 (46%)	28 (100%)
IV & V	4 (18%)	6 (27%)	6 (27%)	6 (27%)	22 (100%)
Unclassified	-	-	-	-	-
All Classes	<u>7</u> (12%)	<u>12</u> (21%)	<u>18</u> (32%)	<u>20</u> (35%)	<u>57</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	1 (50%)	-	-	1 (50%)	2 (100%)
III	4 (67%)	-	-	2 (33%)	6 (100%)
IV & V	4 (31%)	1 (8%)	4 (31%)	4 (31%)	13 (100%)
Unclassified	-	-	1 (100%)	-	1 (100%)
All classes	<u>9</u> (40%)	<u>1</u> (5%)	<u>5</u> (23%)	<u>7</u> (32%)	<u>22</u> (100%)

(d) Respiratory disease

I & II	1 (50%)	-	1 (50%)	-	2 (100%)
III	3 (25%)	-	3 (25%)	6 (50%)	12 (100%)
IV & V	5 (56%)	-	1 (11%)	3 (33%)	9 (100%)
Unclassified	1 (50%)	-	1 (50%)	-	2 (100%)
All classes	<u>10</u> (40%)	-	<u>6</u> (24%)	<u>9</u> (36%)	<u>25</u> (100%)

(e) Other diseases

I & II	-	3 (75%)	-	1 (25%)	4 (100%)
III	4 (20%)	-	6 (30%)	10 (50%)	20 (100%)
IV & V	3 (23%)	6 (46%)	2 (15%)	2 (15%)	13 (100%)
Unclassified	1 (14%)	3 (43%)	1 (14%)	3 (29%)	7 (100%)
All classes	<u>8</u> (18%)	<u>12</u> (27%)	<u>9</u> (20%)	<u>16</u> (34%)	<u>45</u> (100%)

(f) All causes

I & II	4 (17%)	11 (46%)	6 (25%)	3 (13%)	24 (100)
III	28 (26%)	11 (10%)	24 (22%)	46 (42%)	109 (100%)
IV & V	23 (30%)	17 (22%)	19 (24%)	19 (24%)	78 (100%)
Unclassified	2 (17%)	2 (42%)	3 (25%)	3 (17%)	13 (100%)
All classes	<u>57</u> (25%)	<u>44</u> (20%)	<u>52</u> (23%)	<u>71</u> (32%)	<u>224</u> (100%)

TABLE E (continued)
Dartford Town 1963
(ii) Aged 75 years and over

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	6 (43%)	2 (14%)	3 (21%)	3 (21%)	14 (100%)
III	8 (27%)	4 (13%)	8 (27%)	10 (33%)	30 (100%)
IV & V	11 (42%)	8 (31%)	5 (19%)	2 (8%)	26 (100%)
Unclassified	3 (43%)	2 (29%)	2 (29%)	-	7 (100%)
All classes	<u>28</u> (36%)	<u>16</u> (21%)	<u>18</u> (24%)	<u>15</u> (20%)	<u>77</u> (100%)

(b) Cancer

I & II	-	1 (33%)	1 (33%)	1 (33%)	3 (100%)
III	3 (27%)	2 (18%)	5 (46%)	1 (9%)	11 (100%)
IV & V	2 (33%)	2 (33%)	1 (17%)	1 (17%)	6 (100%)
Unclassified	-	-	-	-	-
All classes	<u>5</u> (25%)	<u>5</u> (25%)	<u>7</u> (35%)	<u>3</u> (15%)	<u>20</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	1 (25%)	2 (50%)	1 (25%)	-	4 (100%)
III	8 (47%)	-	4 (24%)	5 (30%)	17 (100%)
IV & V	2 (20%)	2 (20%)	4 (40%)	2 (20%)	10 (100%)
Unclassified	2 (33%)	-	2 (33%)	2 (33%)	6 (100%)
All classes	<u>13</u> (35%)	<u>4</u> (11%)	<u>11</u> (30%)	<u>9</u> (24%)	<u>37</u> (100%)

(d) Respiratory disease

I & II	3 (50%)	1 (17%)	1 (17%)	1 (17%)	6 (100%)
III	12 (63%)	4 (21%)	-	3 (16%)	19 (100%)
IV & V	6 (55%)	1 (9%)	3 (27%)	1 (9%)	11 (100%)
Unclassified	3 (75%)	1 (25%)	-	-	4 (100%)
All classes	<u>24</u> (60%)	<u>7</u> (18%)	<u>4</u> (10%)	<u>5</u> (13%)	<u>40</u> (100%)

(e) Other diseases

I & II	4 (50%)	1 (13%)	2 (25%)	1 (13%)	8 (100%)
III	1 (10%)	3 (30%)	3 (30%)	3 (30%)	10 (100%)
IV & V	4 (40%)	1 (10%)	1 (10%)	4 (40%)	10 (100%)
Unclassified	2 (40%)	1 (20%)	1 (20%)	1 (20%)	5 (100%)
All classes	<u>11</u> (33%)	<u>6</u> (18%)	<u>7</u> (21%)	<u>9</u> (27%)	<u>33</u> (100%)

(f) All causes

I & II	14 (40%)	7 (20%)	8 (23%)	6 (17%)	35 (100%)
III	32 (37%)	13 (15%)	20 (23%)	22 (25%)	87 (100%)
IV & V	25 (40%)	14 (22%)	14 (22%)	10 (16%)	63 (100%)
Unclassified	10 (46%)	4 (18%)	5 (23%)	3 (14%)	22 (100%)
All classes	<u>81</u> (39%)	<u>38</u> (18%)	<u>47</u> (23%)	<u>41</u> (20%)	<u>207</u> (100%)

TABLE E (continued)

Dartford Town 1963

(iii) All ages

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	8 (35%)	7 (30%)	5 (22%)	3 (13%)	23 (100%)
III	22 (30%)	12 (17%)	14 (19%)	25 (34%)	73 (100%)
IV & V	18 (38%)	12 (26%)	11 (23%)	6 (13%)	47 (100%)
Unclassified	3 (33%)	4 (45%)	2 (22%)	-	9 (100%)
All classes	<u>51</u> (34%)	<u>35</u> (23%)	<u>32</u> (21%)	<u>34</u> (22%)	<u>152</u> (100%)

(b) Cancer

I & II	-	4 (40%)	4 (40%)	2 (20%)	10 (100%)
III	6 (15%)	5 (13%)	14 (36%)	14 (36%)	39 (100%)
IV & V	6 (21%)	8 (29%)	7 (25%)	7 (25%)	28 (100%)
Unclassified	-	-	-	-	-
All classes	<u>12</u> (16%)	<u>17</u> (22%)	<u>25</u> (32%)	<u>23</u> (30%)	<u>77</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	2 (33%)	2 (33%)	1 (17%)	1 (17%)	6 (100%)
III	12 (52%)	-	4 (17%)	7 (31%)	23 (100%)
IV & V	6 (26%)	3 (13%)	8 (35%)	6 (26%)	23 (100%)
Unclassified	2 (29%)	-	3 (43%)	2 (29%)	7 (100%)
All classes	<u>22</u> (37%)	<u>5</u> (9%)	<u>16</u> (27%)	<u>16</u> (27%)	<u>59</u> (100%)

(d) Respiratory disease

I & II	4 (50%)	1 (13%)	2 (25%)	1 (13%)	8 (100%)
III	15 (48%)	4 (13%)	3 (10%)	9 (29%)	31 (100%)
IV & V	11 (55%)	1 (5%)	4 (20%)	4 (20%)	20 (100%)
Unclassified	4 (66%)	1 (17%)	1 (17%)	-	6 (100%)
All classes	<u>34</u> (52%)	<u>7</u> (11%)	<u>10</u> (15%)	<u>14</u> (21%)	<u>65</u> (100%)

(e) Other diseases

I & II	4 (33%)	4 (33%)	2 (17%)	2 (17%)	12 (100%)
III	5 (16%)	3 (10%)	9 (30%)	13 (43%)	30 (100%)
IV & V	7 (30%)	7 (30%)	3 (13%)	6 (26%)	23 (100%)
Unclassified	3 (25%)	4 (33%)	2 (17%)	3 (25%)	12 (100%)
All classes	<u>19</u> (25%)	<u>18</u> (24%)	<u>16</u> (20%)	<u>24</u> (31%)	<u>77</u> (100%)

(f) All causes

I & II	18 (30%)	18 (30%)	14 (24%)	9 (15%)	59 (100%)
III	60 (31%)	24 (12%)	44 (22%)	68 (35%)	196 (100%)
IV & V	48 (34%)	31 (22%)	33 (23%)	29 (21%)	141 (100%)
Unclassified	12 (35%)	9 (26%)	8 (24%)	5 (15%)	34 (100%)
All classes	<u>138</u> (32%)	<u>82</u> (19%)	<u>99</u> (23%)	<u>111</u> (25%)	<u>430</u> (100%)

TABLE F

DARTFORD RURAL DISTRICT 1963

MAIN CAUSES OF DEATH BY SOCIAL CLASS AND QUARTER WITH
PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Aged 0 - 74 years

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	8 (57%)	1 (7%)	2 (14%)	3 (22%)	14 (100%)
III	13 (25%)	14 (26%)	14 (26%)	12 (23%)	53 (100%)
IV & V	5 (19%)	8 (30%)	5 (19%)	9 (32%)	27 (100%)
Unclassified	6 (55%)	2 (18%)	2 (18%)	1 (9%)	11 (100%)
All classes	<u>32</u> (31%)	<u>25</u> (24%)	<u>23</u> (22%)	<u>25</u> (24%)	<u>105</u> (100%)

(b) Cancer

I & II	- (0%)	6 (37%)	3 (19%)	7 (44%)	16 (100%)
III	7 (24%)	6 (21%)	14 (48%)	2 (6%)	29 (100%)
IV & V	6 (25%)	5 (21%)	5 (21%)	8 (33%)	24 (100%)
Unclassified	3 (38%)	1 (13%)	4 (50%)	- (0%)	8 (100%)
All classes	<u>16</u> (21%)	<u>18</u> (23%)	<u>26</u> (34%)	<u>17</u> (22%)	<u>77</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	- (0%)	- (0%)	- (0%)	- (0%)	- (0%)
III	2 (22%)	3 (33%)	2 (22%)	2 (22%)	9 (100%)
IV & V	3 (75%)	- (0%)	- (0%)	1 (25%)	4 (100%)
Unclassified	2 (100%)	- (0%)	- (0%)	- (0%)	2 (100%)
All classes	<u>7</u> (47%)	<u>3</u> (20%)	<u>2</u> (13%)	<u>3</u> (20%)	<u>15</u> (100%)

(d) Respiratory disease

I & II	1 (20%)	2 (40%)	- (0%)	2 (40%)	5 (100%)
III	8 (47%)	4 (24%)	1 (5%)	4 (24%)	17 (100%)
IV & V	3 (43%)	1 (14%)	1 (14%)	2 (29%)	7 (100%)
Unclassified	4 (59%)	- (0%)	2 (25%)	2 (25%)	8 (100%)
All classes	<u>16</u> (43%)	<u>7</u> (19%)	<u>4</u> (11%)	<u>10</u> (27%)	<u>37</u> (100%)

(e) Other diseases

I & II	1 (14%)	2 (29%)	3 (43%)	1 (14%)	7 (100%)
III	8 (37%)	6 (27%)	4 (18%)	4 (18%)	22 (100%)
IV & V	10 (27%)	6 (16%)	11 (30%)	10 (27%)	37 (100%)
Unclassified	3 (20%)	5 (33%)	3 (20%)	4 (27%)	15 (100%)
All classes	<u>22</u> (27%)	<u>19</u> (23%)	<u>21</u> (26%)	<u>19</u> (23%)	<u>81</u> (100%)

(f) All causes

I & II	10 (26%)	11 (26%)	8 (18%)	13 (30%)	42 (100%)
III	38 (29%)	33 (25%)	35 (27%)	24 (19%)	130 (100%)
IV & V	27 (27%)	20 (20%)	22 (23%)	30 (30%)	99 (100%)
Unclassified	18 (41%)	8 (18%)	13 (25%)	7 (16%)	44 (100%)
All classes	<u>93</u> (30%)	<u>72</u> (23%)	<u>76</u> (24%)	<u>74</u> (24%)	<u>315</u> (100%)

TABLE F (continued)

DARTFORD RURAL DISTRICT 1963

(ii) Aged 75 years and over

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	12 (46%)	8 (30%)	3 (12%)	3 (12%)	26 (100%)
III	15 (33%)	8 (18%)	9 (20%)	13 (29%)	45 (100%)
IV & V	12 (38%)	7 (22%)	6 (20%)	6 (20%)	31 (100%)
Unclassified	2 (40%)	- (0%)	2 (40%)	1 (20%)	5 (100%)
All classes	<u>41</u> (38%)	<u>23</u> (22%)	<u>20</u> (19%)	<u>23</u> (21%)	<u>107</u> (100%)

(b) Cancer

I & II	2 (66%)	- (0%)	1 (33%)	- (0%)	3 (100%)
III	5 (42%)	1 (8%)	3 (25%)	3 (25%)	12 (100%)
IV & V	1 (8%)	3 (25%)	2 (17%)	6 (50%)	12 (100%)
Unclassified	- (0%)	1 (100%)	- (0%)	- (0%)	1 (100%)
All classes	<u>8</u> (27%)	<u>5</u> (18%)	<u>6</u> (22%)	<u>9</u> (32%)	<u>28</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	4 (28%)	2 (14%)	4 (28%)	4 (28%)	14 (100%)
III	4 (33%)	- (0%)	4 (33%)	4 (33%)	12 (100%)
IV & V	3 (38%)	1 (12%)	2 (25%)	2 (25%)	8 (100%)
Unclassified	3 (60%)	- (0%)	1 (20%)	1 (20%)	5 (100%)
All classes	<u>14</u> (36%)	<u>3</u> (8%)	<u>11</u> (28%)	<u>11</u> (28%)	<u>39</u> (100%)

(d) Respiratory disease

I & II	5 (72%)	1 (14%)	- (0%)	1 (14%)	7 (100%)
III	9 (45%)	3 (15%)	1 (5%)	7 (35%)	20 (100%)
IV & V	11 (69%)	1 (6%)	1 (6%)	3 (19%)	16 (100%)
Unclassified	1 (33%)	1 (33%)	1 (33%)	- (0%)	3 (100%)
All classes	<u>26</u> (57%)	<u>6</u> (13%)	<u>3</u> (7%)	<u>11</u> (24%)	<u>46</u> (100%)

(e) Other diseases

I & II	2 (50%)	1 (25%)	- (0%)	1 (25%)	4 (100%)
III	3 (30%)	2 (20%)	4 (40%)	1 (10%)	10 (100%)
IV & V	3 (19%)	8 (50%)	1 (6%)	4 (25%)	16 (100%)
Unclassified	4 (50%)	1 (13%)	1 (13%)	2 (25%)	8 (100%)
All classes	<u>12</u> (31%)	<u>12</u> (31%)	<u>6</u> (16%)	<u>8</u> (21%)	<u>38</u> (100%)

(f) All causes

I & II	25 (46%)	12 (22%)	8 (15%)	9 (17%)	54 (100%)
III	36 (37%)	14 (14%)	21 (21%)	28 (28%)	99 (100%)
IV & V	30 (36%)	20 (25%)	12 (14%)	21 (25%)	83 (100%)
Unclassified	10 (48%)	3 (10%)	5 (21%)	4 (21%)	22 (100%)
All classes	<u>101</u> (39%)	<u>49</u> (19%)	<u>46</u> (18%)	<u>62</u> (24%)	<u>258</u> (100%)

TABLE F (continued)
DARTFORD RURAL DISTRICT 1963
(iii) All ages

(a) Circulatory disease

Class	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II	20 (50%)	9 (22%)	5 (13%)	6 (15%)	40 (100%)
III	28 (29%)	22 (22%)	23 (23%)	25 (26%)	98 (100%)
IV & V	17 (29%)	15 (26%)	11 (19%)	15 (26%)	58 (100%)
Unclassified	8 (50%)	2 (13%)	4 (25%)	2 (13%)	16 (100%)
All classes	<u>73</u> (34%)	<u>48</u> (23%)	<u>43</u> (20%)	<u>48</u> (23%)	<u>212</u> (100%)

(b) Cancer

I & II	2 (11%)	6 (32%)	4 (21%)	7 (37%)	19 (100%)
III	12 (29%)	7 (17%)	17 (41%)	5 (12%)	41 (100%)
IV & V	7 (19%)	8 (22%)	7 (19%)	14 (39%)	36 (100%)
Unclassified	3 (33%)	2 (22%)	4 (44%)	- (0%)	9 (100%)
All classes	<u>24</u> (33%)	<u>23</u> (22%)	<u>32</u> (30%)	<u>26</u> (25%)	<u>105</u> (100%)

(c) Vasc. lesions of Nervous System

I & II	4 (29%)	2 (14%)	4 (29%)	4 (29%)	14 (100%)
III	6 (29%)	3 (14%)	6 (29%)	6 (29%)	21 (100%)
IV & V	6 (50%)	1 (8%)	2 (17%)	3 (25%)	12 (100%)
Unclassified	5 (72%)	- (0%)	1 (14%)	1 (14%)	7 (100%)
All classes	<u>21</u> (39%)	<u>6</u> (11%)	<u>13</u> (24%)	<u>14</u> (26%)	<u>54</u> (100%)

(d) Respiratory disease

I & II	6 (50%)	3 (25%)	- (0%)	3 (25%)	12 (100%)
III	17 (46%)	7 (19%)	2 (5%)	11 (30%)	37 (100%)
IV & V	14 (61%)	2 (9%)	2 (9%)	5 (22%)	23 (100%)
Unclassified	5 (46%)	1 (9%)	3 (27%)	2 (18%)	11 (100%)
All classes	<u>42</u> (51%)	<u>13</u> (16%)	<u>7</u> (8%)	<u>21</u> (25%)	<u>83</u> (100%)

(e) Other diseases

I & II	3 (27%)	3 (27%)	3 (27%)	2 (18%)	11 (100%)
III	11 (34%)	8 (25%)	8 (25%)	5 (16%)	32 (100%)
IV & V	13 (25%)	14 (26%)	12 (23%)	14 (26%)	53 (100%)
Unclassified	7 (30%)	6 (26%)	4 (17%)	6 (26%)	23 (100%)
All classes	<u>34</u> (29%)	<u>31</u> (26%)	<u>27</u> (23%)	<u>27</u> (23%)	<u>119</u> (100%)

(f) All causes

I & II	35 (36%)	23 (24%)	16 (17%)	22 (23%)	96 (100%)
III	74 (32%)	47 (21%)	56 (25%)	52 (23%)	229 (100%)
IV & V	57 (31%)	40 (22%)	34 (19%)	51 (28%)	182 (100%)
Unclassified	28 (42%)	11 (17%)	16 (24%)	11 (17%)	66 (100%)
All classes	<u>194</u> (34%)	<u>121</u> (21%)	<u>122</u> (21%)	<u>136</u> (24%)	<u>573</u> (100%)

TABLE G

BEXLEY HOSPITAL (1961 census : 1949 inmates)
 PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) All causes

All ages	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
1956	55 (31%)	47 (27%)	30 (17%)	44 (25%)	176 (100%)
1957	58 (26%)	63 (28%)	32 (15%)	69 (31%)	222 (100%)
1958	60 (40%)	28 (19%)	29 (20%)	32 (21%)	149 (100%)
1959	57 (24%)	40 (24%)	30 (18%)	40 (24%)	167 (100%)
1960	24 (20%)	39 (32%)	27 (22%)	31 (26%)	121 (100%)
1961	49 (28%)	43 (24%)	21 (12%)	64 (36%)	177 (100%)
1962	69 (34%)	59 (29%)	39 (19%)	36 (18%)	203 (100%)
1963	72 (42%)	36 (21%)	27 (16%)	36 (21%)	171 (100%)

(ii) Main causes

(a) Circulatory disease

1962	35 (39%)	29 (32%)	15 (17%)	11 (12%)	90 (100%)
1963	22 (38%)	16 (28%)	7 (12%)	13 (22%)	58 (100%)

(b) Cancer

1962	2 (16%)	1 (8%)	5 (38%)	5 (38%)	13 (100%)
1963	3 (25%)	2 (17%)	4 (33%)	3 (25%)	12 (100%)

(c) Vasc. lesions of Nervous System

1962	5 (31%)	5 (31%)	5 (31%)	2 (7%)	16 (100%)
1963	12 (50%)	7 (29%)	2 (8%)	3 (13%)	24 (100%)

(d) Respiratory disease

1962	18 (31%)	17 (29%)	9 (16%)	14 (24%)	58 (100%)
1963	30 (48%)	7 (11%)	12 (19%)	14 (22%)	63 (100%)

(e) Other causes

1962	9 (37%)	7 (27%)	5 (19%)	5 (19%)	26 (100%)
1963	5 (36%)	4 (29%)	2 (14%)	3 (21%)	14 (100%)

(f) All causes

1962	69 (34%)	59 (29%)	39 (19%)	36 (18%)	203 (100%)
1963	72 (42%)	36 (21%)	27 (16%)	36 (21%)	171 (100%)

